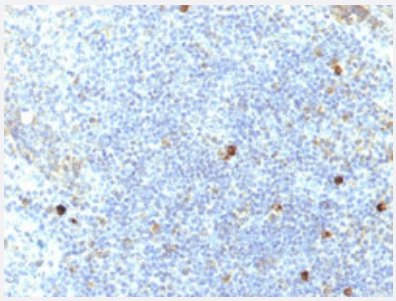
HLA-A25/HLA-Aw32 monoclonal antibody, clone SPM417

Catalog # MAB13072 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with HLA-A25/HLA-Aw32 monoclonal antibody, clone SPM417 (Cat # MAB13072).

Specification

Product Description	Mouse monoclonal antibody raised against native human HLA-A25/HLA-Aw32.
Immunogen	Normal human peripheral blood lymphocytes of phenotype A1, Aw32, B7, B37, Cw-, Cw-, DR2, DRw 10.
Host	Mouse
Reactivity	Human
Specificity	This monoclonal antibody reacts with cells bearing HLA-A25 or HLA-Aw32 antigens. In addition, a re action was observed with a cell of phenotype A2, Aw31; B17, Bw49. HLA-A, with HLA-B and HLA-C, belongs to major histocompatibility complex (MHC) class I antigens and expresses constitutively on a ll nucleated cells. HLA system comprises closely linked genes controlling highly polymorphic proteins involved in the presentation of peptides to the T cell receptor, inhibition of NK cell cytotoxicity, and rej ection of tissue allotransplantation. Specific alleles at HLA loci are associated with diseases. This an tibody is specifically applicable for typing peripheral T cells for the antigens HLA-A25 and HLA-Aw32 .
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a, kappa

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Recommend Usage	Flow Cytometry (0.5-1 ug/10^6 cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.
Storage Instruction	Store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with HLA-A25/HLA-Aw32 monoclonal antibody, clone SPM417 (Cat # MAB13072).

- Immunofluorescence

- Flow Cytometry

Gene Info — HLA-A

Entrez GeneID	3105
Protein Accession#	P01889;P30443;P30499
Gene Name	HLA-A
Gene Alias	HLAA
Gene Description	major histocompatibility complex, class I, A
Omim ID	106300 142800 608579
Gene Ontology	Hyperlink

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Gene Summary	HLA-A belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored i n the membrane. Class I molecules play a central role in the immune system by presenting peptid es derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heav y chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptid e, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 en codes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide bind ing specificity of each class one molecule. Typing for these polymorphisms is routinely done for b one marrow and kidney transplantation. Hundreds of HLA-A alleles have been described. [provid ed by RefSeq
Other Designations	HLA class I histocompatibility antigen, A-23 alpha chain|MHC class I antigen HLA-A heavy chain| MHC leukocyte antigen|OTTHUMP00000161059|antigen presenting molecule|leucocyte antigen c lass I|leukocyte antigen class I-A

Gene Info — HLA-B

Entrez GeneID	3106
Protein Accession#	P01889;P30443;P30499
Gene Name	HLA-B
Gene Alias	AS, HLA-B-7301, HLA-B73, HLAB, HLAC, SPDA1
Gene Description	major histocompatibility complex, class I, B
Omim ID	106300 142830 608579
Gene Ontology	Hyperlink
Gene Summary	HLA-B belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored i n the membrane. Class I molecules play a central role in the immune system by presenting peptid es derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heav y chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptid e, exon 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 enc odes the alpha3 domain, exon 5 encodes the transmembrane region and exons 6 and 7 encode t he cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide bindi ng specificity of each class one molecule. Typing for these polymorphisms is routinely done for bo ne marrow and kidney transplantation. Hundreds of HLA-B alleles have been described. [provide d by RefSeq
Other Designations	HLA class I histocompatibility antigen, B alpha chain|HLA class I histocompatibility antigen, B-7 al pha chain|HLA class I histocompatibility antigen, Cw-5 alpha chain|HLA-B alpha chain (HLA-B*73 01)|MHC Class I HLA heavy chain|MHC HLA-B cell surface glycop

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Gene Info — HLA-C

Entrez GeneID	3107
Protein Accession#	P01889;P30443;P30499
Gene Name	HLA-C
Gene Alias	D6S204, FLJ27082, HLA-Cw, HLA-Cw12, HLA-JY3, HLC-C, PSORS1
Gene Description	major histocompatibility complex, class I, C
Omim ID	142840 177900
Gene Ontology	Hyperlink
Gene Summary	HLA-C belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored i n the membrane. Class I molecules play a central role in the immune system by presenting peptid es derived from endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy ch ain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide , exons 2 and 3 encode the alpha1 and alpha2 domain, which both bind the peptide, exon 4 enco des the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode th e cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide bindin g specificity of each class one molecule. Typing for these polymorphisms is routinely done for bon e marrow and kidney transplantation. Over one hundred HLA-C alleles have been described [prov ided by RefSeq
Other Designations	HLA class I antigen|HLA class I heavy chain|HLA class I histocompatibility antigen, C alpha chain| HLA-C (Cw*1201)|HLA-Cw*050x|MHC class I HLA-C|MHC class I HLA-Cw*0803|MHC class I ant igen HLA-C|MHC class I antigen heavy chain HLA-C|MHC class I protein HLA

Pathway

- Allograft rejection
- Allograft rejection
- Allograft rejection
- Antigen processing and presentation
- Antigen processing and presentation
- Antigen processing and presentation
- Autoimmune thyroid disease

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- Autoimmune thyroid disease
- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Cell adhesion molecules (CAMs)
- Cell adhesion molecules (CAMs)
- Endocytosis
- Endocytosis
- Endocytosis
- Graft-versus-host disease
- Graft-versus-host disease
- Graft-versus-host disease
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Type I diabetes mellitus
- Type I diabetes mellitus
- Type I diabetes mellitus

Disease

- Abortion
- Abortion
- Abortion
- Abruptio Placentae
- Abruptio Placentae
- Achievement
- Acquired Immunodeficiency Syndrome

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- Acquired Immunodeficiency Syndrome
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Acute Disease
- Acute Disease
- Addison Disease
- Addison Disease
- Adenocarcinoma
- Adenocarcinoma
- Adenocarcinoma
- Adenovirus Infections
- Adenovirus Infections
- Adrenal hyperplasia
- Agranulocytosis
- Agranulocytosis
- AIDS-Related Opportunistic Infections
- AIDS-Related Opportunistic Infections
- Alcoholism
- Alcoholism
- Alcoholism
- Alopecia Areata
- Alopecia Areata
- Alopecia Areata
- Alveolar Bone Loss
- Alveolar Bone Loss

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- Alveolar Bone Loss
- Alzheimer disease
- Anemia
- Anemia
- Anemia
- Aortic Aneurysm
- Aortic Aneurysm
- Aortic Diseases
- Aortic Diseases
- Arterial Occlusive Diseases
- Arterial Occlusive Diseases
- Arthritis
- Arthritis
- Arthritis
- Asthma
- Asthma
- Asthma
- Atherosclerosis
- Atherosclerosis
- Autistic Disorder
- Autistic Disorder
- Autoimmune Diseases
- Autoimmune Diseases
- Autoimmune Diseases
- Autonomic Nervous System Diseases
- Autonomic Nervous System Diseases

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- Barrett Esophagus
- Behcet Syndrome
- Behcet Syndrome
- Behcet Syndrome
- beta-Thalassemia
- Biliary Atresia
- Biliary Atresia
- Bipolar Disorder
- Bipolar Disorder
- Bipolar Disorder
- Birth Weight
- Birth Weight
- Brain Neoplasms
- Brain Neoplasms
- Brain Neoplasms
- Breast cancer
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Breast Neoplasms
- Bronchiectasis
- Bronchiectasis
- Bronchiolitis
- Bronchiolitis
- Brucellosis

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- Calcinosis
- Calcinosis
- Calcinosis
- Carcinoma
- Carcinoma
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Celiac Disease
- Celiac Disease
- Celiac Disease
- Cerebrovascular Accident
- Cervical Intraepithelial Neoplasia
- Cervical Intraepithelial Neoplasia
- Chagas Cardiomyopathy
- Chagas Cardiomyopathy
- Chagas Cardiomyopathy
- Chagas Disease
- Chagas Disease
- Chlamydophila Infections
- Chlamydophila Infections
- Cholangitis
- Cholangitis
- Cholangitis
- Choroidal Neovascularization
- Choroidal Neovascularization

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- Chronic Disease
- Chronic Disease
- Chronic Disease
- Churg-Strauss Syndrome
- Churg-Strauss Syndrome
- Colitis
- Colitis
- Colitis
- Common Variable Immunodeficiency
- Common Variable Immunodeficiency
- Complex Regional Pain Syndromes
- Complex Regional Pain Syndromes
- Conjunctivitis
- Conjunctivitis
- Conjunctivitis
- Connective Tissue Diseases
- Connective Tissue Diseases
- Connective Tissue Diseases
- Coronary Aneurysm
- Coronary Aneurysm
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Crohn Disease

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- Crohn Disease
- Cystic fibrosis
- Cytomegalovirus Infections
- Cytomegalovirus Infections
- Cytomegalovirus Infections
- Cytomegalovirus Retinitis
- Cytomegalovirus Retinitis
- Dengue
- Dengue
- Dengue
- Dermatitis
- Dermatitis
- Dermatomyositis
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetes Mellitus
- Disease
- Disease Progression
- Disease Progression
- Disease Progression
- Disease Susceptibility
- Disease Susceptibility
- Disease Susceptibility
- Diseases in Twins
- Drug Eruptions

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- Drug Eruptions
- Drug Eruptions
- Drug Hypersensitivity
- Drug Hypersensitivity
- Drug Hypersensitivity
- Drug Toxicity
- Drug Toxicity
- Drug Toxicity
- Drug-Induced Liver Injury
- Duchenne muscular dystrophy
- Duchenne muscular dystrophy
- Ductus Arteriosus
- Duodenal Ulcer
- Duodenal Ulcer
- Dystonia
- Dystonia
- Edema
- Encephalitis
- Encephalitis
- Encephalomyelitis
- Encephalomyelitis
- Endometriosis
- Endometriosis
- Endometriosis
- Enterovirus Infections
- Epidermal Necrolysis

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- Epidermal Necrolysis
- Epidermal Necrolysis
- Epilepsy
- Epilepsy
- Epilepsy
- Epstein-Barr Virus Infections
- Epstein-Barr Virus Infections
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Esophageal Neoplasms
- Esophageal Neoplasms
- Exanthema
- Exanthema
- Exanthema
- Eye Diseases
- Eye Diseases
- Eye Diseases
- Eye Infections
- Eye Infections
- Eye Infections
- Fatigue Syndrome
- Fibrosis
- Fibrosis
- Fibrosis
- Gastritis
- Gastritis

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- Gastritis
- Gastroesophageal Reflux
- Gastrointestinal Diseases
- Gastrointestinal Diseases
- Genetic Diseases
- Genetic Diseases
- Genetic Diseases
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Gingival Hemorrhage
- Gingival Hemorrhage
- Glioblastoma
- Glioblastoma
- Glioblastoma
- Glioma
- Glioma
- Glioma
- Glomerulonephritis
- Glomerulonephritis
- Goiter
- Gonorrhea

- Graft vs Host Disease
- Graft vs Host Disease

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- Graft vs Host Disease
- Graves Disease
- Graves Disease
- Head and Neck Neoplasms
- Head and Neck Neoplasms
- Head and Neck Neoplasms
- Heart Failure
- Heart Failure
- Helicobacter Infections
- Helicobacter Infections
- Helicobacter Infections
- Hemangioma
- Hemangioma
- Hematologic Diseases
- Hematologic Diseases
- Hematologic Neoplasms
- Hematologic Neoplasms
- Hematologic Neoplasms
- Hemochromatosis
- Hemochromatosis
- Hemoglobinuria
- Hemoglobinuria
- Hemoglobinuria
- Hemophilia A
- Hemophilia A
- Hemophilia A

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- Hemophilia B
- Hemophilia B
- Hemophilia B
- Hemorrhagic Fever with Renal Syndrome
- Hemosiderosis
- Hemosiderosis
- Hepatitis
- Hepatitis
- Hepatitis
- Hepatitis A
- Hepatitis A
- Hepatitis A
- Hepatitis B
- Hepatitis B
- Hepatitis B
- Hepatitis C
- Hepatitis C
- Hepatitis C
- Hepatitis D
- Hepatitis D
- Hepatitis D
- Hereditary hemochromatosis
- Hereditary hemochromatosis
- Herpes Zoster
- Herpes Zoster
- Herpesviridae Infections

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- Histoplasmosis
- Histoplasmosis
- HIV Infections
- HIV Infections
- HIV Infections
- HIV Seropositivity
- HIV Seropositivity
- HIV Seropositivity
- Hodgkin Disease
- HTLV-I Infections
- HTLV-I Infections
- HTLV-I Infections
- Hyperplasia
- Hyperplasia
- Hypersensitivity
- Hypersensitivity
- Hypersensitivity
- Hypertension
- Hypertension
- IgA Deficiency
- IgA Deficiency
- IgG Deficiency
- IgG Deficiency
- Infant
- Infection
- Infection

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- Infection
- Infectious Mononucleosis
- Infectious Mononucleosis
- Infectious Mononucleosis
- Inflammation
- Inflammation
- Inflammation
- Inflammatory Bowel Diseases
- Inflammatory Bowel Diseases
- Iron Overload
- Iron Overload
- Joint Diseases
- Joint Diseases
- Joint Diseases
- Keloid
- Keloid
- Keloid
- Kidney Diseases
- Kidney Diseases
- Kidney Failure
- Kidney Failure
- Kidney Failure
- Knee Injuries
- Knee Injuries
- Knee Injuries
- Lambert-Eaton Myasthenic Syndrome

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- Leg Dermatoses
- Leprosy
- Leprosy
- Leprosy
- Leptospirosis
- Leptospirosis
- Leptospirosis
- Leukemia
- Leukemia
- Leukemia
- Leukemia-Lymphoma
- Leukemia-Lymphoma
- Lipodystrophy
- Lipodystrophy
- Lipodystrophy
- Liver Cirrhosis
- Liver Cirrhosis
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung carcinoma
- Lung carcinoma
- Lung carcinoma
- Lung Diseases
- Lung Neoplasms
- Lung Neoplasms

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- Lung Neoplasms
- Lupus Erythematosus
- Lupus Erythematosus
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphatic Metastasis
- Lymphatic Metastasis
- Lymphoma
- Lymphoma
- Lymphoma
- Lymphoproliferative Disorders
- Lymphoproliferative Disorders
- Macular Degeneration
- Macular Degeneration
- Malaria
- Malaria
- Malignant melanoma
- Malignant melanoma
- Malignant melanoma
- Melanoma
- Melanoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Menkes syndrome
- Metabolic Syndrome X

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- Moyamoya Disease
- Mucocutaneous Lymph Node Syndrome
- Mucocutaneous Lymph Node Syndrome
- Mucocutaneous Lymph Node Syndrome
- Multiple Myeloma
- Multiple Sclerosis
- Multiple Sclerosis
- Multiple Sclerosis
- Muscular Dystrophy
- Muscular Dystrophy
- Myasthenia Gravis
- Myasthenia Gravis
- Myasthenia Gravis
- Mycobacterium avium-intracellulare Infection
- Mycobacterium avium-intracellulare Infection
- Myelodysplastic Syndromes
- Myelodysplastic Syndromes
- Myelodysplastic Syndromes
- Myositis
- Myositis
- Myositis
- Nail Diseases
- Nasal Polyps
- Nasal Polyps
- Nasal Polyps
- Nasopharyngeal Neoplasms

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- Nasopharyngeal Neoplasms
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Invasiveness
- Neoplasms
- Neoplasms
- Neovascularization
- Neovascularization
- Nephrosis
- Nephrosis
- Nephrotic Syndrome
- Neuralgia
- Neuralgia
- Neuroblastoma
- Neuroblastoma
- Neuroblastoma
- Neuromyelitis Optica
- Neuromyelitis Optica
- Neuromyelitis Optica
- Nut Hypersensitivity
- Nut Hypersensitivity

- Obesity
- Obesity
- Obesity
- Occupational Diseases

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- Occupational Diseases
- Occupational Diseases
- Ophthalmia
- Optic Neuritis
- Optic Neuritis
- Oral Submucous Fibrosis
- Oral Submucous Fibrosis
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteoporosis
- Osteoporosis
- Osteoporosis
- Ovarian cancer
- Ovarian cancer
- Ovarian cancer
- Ovarian Neoplasms
- Ovarian Neoplasms
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic cancer
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatic Neoplasms
- Pancreatic Neoplasms
- Pancreatitis
- Pancreatitis
- Pancreatitis

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- Papilloma
- Papilloma
- Papilloma
- Papillomavirus Infections
- Papillomavirus Infections
- Papillomavirus Infections
- Paraneoplastic Syndromes
- Paraneoplastic Syndromes
- Paraparesis
- Paraparesis
- Paraparesis
- Paroxysmal nocturnal hemoglobinuria
- Paroxysmal nocturnal hemoglobinuria
- Paroxysmal nocturnal hemoglobinuria
- Pars Planitis
- Pars Planitis
- Pemphigus
- Pemphigus
- Pemphigus
- Penile Induration
- Penile Induration
- Penile Induration
- Periodontal Attachment Loss
- Periodontal Attachment Loss
- Periodontal Attachment Loss
- Periodontitis

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- Periodontitis
- Periodontitis
- Pharyngitis
- Photosensitivity Disorders
- Photosensitivity Disorders
- Pityriasis Rosea
- Pityriasis Rosea
- Pityriasis Rosea
- Polycystic Ovary Syndrome
- Polymyositis
- Porphyria
- Porphyria
- Porphyria Cutanea Tarda
- Porphyria Cutanea Tarda
- Postoperative Complications
- Postoperative Complications
- Postoperative Complications
- Pre-Eclampsia
- Pre-Eclampsia
- Pre-Eclampsia
- Pregnancy Complications
- Pregnancy Complications
- Pregnancy Complications
- Prostate cancer
- Prostate cancer
- Prostate cancer

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- Prostatic Neoplasms
- Proteinuria
- Proteinuria
- Psoriasis
- Psoriasis
- Psoriasis
- Psychotic Disorders
- Psychotic Disorders
- Pulmonary Disease
- Pulmonary Disease
- Pulmonary Embolism
- Pulmonary Embolism
- Pulmonary Fibrosis
- Purpura
- Purpura
- Q Fever
- Recurrence
- Recurrence
- Recurrence
- Respiratory Tract Infections
- Respiratory Tract Infections
- Retinal Diseases
- Retroperitoneal Fibrosis
- Retroperitoneal Fibrosis
- Rheumatic Diseases
- Rheumatic Diseases

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- Rheumatic Diseases
- Rheumatic Heart Disease
- Rheumatic Heart Disease
- Rheumatic Heart Disease
- Salivary Gland Diseases
- Salivary Gland Diseases
- Salivary Gland Diseases
- Sarcoidosis
- Sarcoidosis
- Sarcoma
- Sarcoma
- Scalp Dermatoses
- Schizophrenia
- Schizophrenia
- Schizophrenia
- Scleroderma
- Scleroderma
- Severe Acute Respiratory Syndrome
- Severe Acute Respiratory Syndrome

- Sexually Transmitted Diseases
- Skin Diseases
- Skin Diseases
- Skin Diseases
- Skin Neoplasms
- Skin Neoplasms

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- Skin Neoplasms
- Skin Ulcer
- Small Cell Lung Carcinoma
- Small Cell Lung Carcinoma
- Spinal Cord Diseases
- Spinal Cord Diseases
- Spinal Cord Diseases
- Spondylarthritis
- Spondylarthritis
- Spondylarthritis
- Spondylarthropathies
- Spondylarthropathies
- Spondylarthropathies
- Spondylitis
- Spondylitis
- Spondylitis
- Stevens-Johnson Syndrome
- Stevens-Johnson Syndrome
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Stomach Neoplasms
- Stomach Neoplasms
- Stomatitis
- Stomatitis
- Streptococcal Infections
- Substance Abuse

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- Substance Abuse
- Substance Abuse
- Substance-Related Disorders
- Syndrome
- Synovitis
- Takayasu Arteritis
- Temporal Arteritis
- Temporomandibular Joint Disorders
- Temporomandibular Joint Disorders
- Temporomandibular Joint Disorders
- Tenosynovitis
- Tenosynovitis
- Thalassemia
- Thromboembolism
- Thromboembolism
- Thrombophlebitis
- Thrombophlebitis
- Thrombophlebitis
- Thymoma
- Thymoma
- Thymus Neoplasms
- Thymus Neoplasms
- Thyroid Neoplasms
- Thyroiditis
- Thyroiditis
- Trachoma

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- Translocation
- Translocation
- Tuberculosis
- Tuberculosis
- Tumor Virus Infections
- Tumor Virus Infections
- Tumor Virus Infections
- Urticaria
- Urticaria
- Urticaria
- Uterine Cervical Neoplasms
- Uterine Cervical Neoplasms
- Uterine Cervical Neoplasms
- Uveitis
- Uveitis
- Uveitis
- Uveomeningoencephalitic Syndrome
- Uveomeningoencephalitic Syndrome
- Uveomeningoencephalitic Syndrome

- Vasculitis
- Vasculitis
- Venous Thrombosis
- Venous Thrombosis
- Viremia
- Viremia
- Viremia

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- Vitiligo
- Vitiligo
- Vitiligo
- Wounds and Injuries

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