HLA-B monoclonal antibody, clone JOAN-1

Catalog # MAB5320 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against HLA-B.
Immunogen	Native purified HLA-B from normal human peripheral blood lymphocytes.
Host	Mouse
Reactivity	Human
Specificity	JOAN-1 recognizes an intralocus determinant present on a limited number of HLA-B locus-encoded gene products.
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide)
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Frozen sections)
- Western Blot

Gene Info — HLA-B

Entrez GeneID	3106

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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

Pathway

- Allograft rejection
- Antigen processing and presentation
- Autoimmune thyroid disease
- Cell adhesion molecules (CAMs)
- Endocytosis
- Graft-versus-host disease
- Natural killer cell mediated cytotoxicity
- Type I diabetes mellitus

Disease

- Abortion

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- Abruptio Placentae
- Achievement
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Addison Disease
- Adenocarcinoma
- Adenovirus Infections
- Adrenal hyperplasia
- Agranulocytosis
- AIDS-Related Opportunistic Infections
- Alcoholism
- Alopecia Areata
- Alveolar Bone Loss
- Anemia
- Aortic Aneurysm
- Aortic Diseases
- Arterial Occlusive Diseases
- Arthritis
- Asthma
- Atherosclerosis
- Autistic Disorder
- Autoimmune Diseases
- Autonomic Nervous System Diseases
- Barrett Esophagus
- Behcet Syndrome
- Biliary Atresia

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- Bipolar Disorder
- Birth Weight
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchiectasis
- Bronchiolitis
- Brucellosis
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Cerebrovascular Accident
- Cervical Intraepithelial Neoplasia
- Chagas Cardiomyopathy
- Chagas Disease
- Chlamydophila Infections
- Cholangitis
- Choroidal Neovascularization
- Chronic Disease
- Churg-Strauss Syndrome
- Colitis
- Common Variable Immunodeficiency
- Complex Regional Pain Syndromes
- Conjunctivitis
- Connective Tissue Diseases

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- Coronary Aneurysm
- Coronary Artery Disease
- Crohn Disease
- Cystic fibrosis
- Cytomegalovirus Infections
- Cytomegalovirus Retinitis
- Dengue
- Dermatitis
- Dermatomyositis
- Diabetes Mellitus
- Disease
- Disease Progression
- Disease Susceptibility
- Drug Eruptions
- Drug Hypersensitivity
- Drug Toxicity
- Duchenne muscular dystrophy
- Ductus Arteriosus
- Duodenal Ulcer
- Dystonia
- Edema
- Encephalitis
- Encephalomyelitis
- Endometriosis
- Epidermal Necrolysis
- Epilepsy

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- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Exanthema
- Eye Diseases
- Eye Infections
- Fatigue Syndrome
- Fibrosis
- Gastritis
- Gastroesophageal Reflux
- Gastrointestinal Diseases
- Genetic Diseases
- Genetic Predisposition to Disease
- Gingival Hemorrhage
- Glioblastoma
- Glioma
- Glomerulonephritis
- Graft vs Host Disease
- Graves Disease
- Head and Neck Neoplasms
- Heart Failure
- Helicobacter Infections
- Hemangioma
- Hematologic Diseases
- Hematologic Neoplasms
- Hemochromatosis
- Hemoglobinuria

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- Hemophilia A
- Hemophilia B
- Hemorrhagic Fever with Renal Syndrome
- Hemosiderosis
- Hepatitis
- Hepatitis A
- Hepatitis B
- Hepatitis C
- Hepatitis D
- Hereditary hemochromatosis
- Herpes Zoster
- Histoplasmosis
- HIV Infections
- HIV Seropositivity
- HTLV-I Infections
- Hyperplasia
- Hypersensitivity
- Hypertension
- IgA Deficiency
- IgG Deficiency
- Infant
- Infection
- Infectious Mononucleosis
- Inflammation
- Inflammatory Bowel Diseases
- Iron Overload

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- Joint Diseases
- Keloid
- Kidney Diseases
- Kidney Failure
- Knee Injuries
- Lambert-Eaton Myasthenic Syndrome
- Leprosy
- Leptospirosis
- Leukemia
- Leukemia-Lymphoma
- Lipodystrophy
- Liver Cirrhosis
- Lung carcinoma
- Lung Diseases
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Lymphoproliferative Disorders
- Macular Degeneration
- Malaria
- Malignant melanoma
- Melanoma
- Moyamoya Disease
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis

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- Muscular Dystrophy
- Myasthenia Gravis
- Mycobacterium avium-intracellulare Infection
- Myelodysplastic Syndromes
- Myositis
- Nasal Polyps
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasms
- Neovascularization
- Nephrosis
- Neuralgia
- Neuroblastoma
- Neuromyelitis Optica
- Nut Hypersensitivity
- Obesity
- Occupational Diseases
- Optic Neuritis
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms

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- Pancreatitis
- Papilloma
- Papillomavirus Infections
- Paraneoplastic Syndromes
- Paraparesis
- Paroxysmal nocturnal hemoglobinuria
- Pars Planitis
- Pemphigus
- Penile Induration
- Periodontal Attachment Loss
- Periodontitis
- Photosensitivity Disorders
- Pityriasis Rosea
- Polymyositis
- Porphyria
- Porphyria Cutanea Tarda
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Prostate cancer
- Proteinuria
- Psoriasis
- Psychotic Disorders
- Pulmonary Disease
- Pulmonary Embolism
- Pulmonary Fibrosis

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- Purpura
- Q Fever
- Recurrence
- Respiratory Tract Infections
- Retinal Diseases
- Retroperitoneal Fibrosis
- Rheumatic Diseases
- Rheumatic Heart Disease
- Salivary Gland Diseases
- Sarcoidosis
- Sarcoma
- Schizophrenia
- Scleroderma
- Severe Acute Respiratory Syndrome
- Skin Diseases
- Skin Neoplasms
- Skin Ulcer
- Small Cell Lung Carcinoma
- Spinal Cord Diseases
- Spondylarthritis
- Spondylarthropathies
- Spondylitis
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Stomatitis
- Substance Abuse

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- Syndrome
- Synovitis
- Takayasu Arteritis
- Temporal Arteritis
- Temporomandibular Joint Disorders
- Tenosynovitis
- Thromboembolism
- Thrombophlebitis
- Thymoma
- Thymus Neoplasms
- Thyroiditis
- Trachoma
- Translocation
- Tuberculosis
- Tumor Virus Infections
- Urticaria
- Uterine Cervical Neoplasms
- Uveitis
- Uveomeningoencephalitic Syndrome
- Vasculitis
- Venous Thrombosis
- Viremia
- Vitiligo

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