HLA-B monoclonal antibody, clone EP-4

Catalog # MAB5202 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native HLA-B.
Immunogen	Native purified from lymphocytes of HLA-B27 individual.
Host	Mouse
Reactivity	Human
Specificity	EP-4 recognizes the HLA-B27 cell surface antigen on human cells. Since EP-4 recognizes the HLA-B27 antigen, it may be used to HLA type human lymphoctyes. Approximately 60% of patients with an kylosing spondylitis are HLA-B27 positive. This reagent can be used to help identify this HLA haplotype in human lymphocytes. Monoclonal antibody EP-4 recognizes the HLA-B27 antigen expressed on individuals with this HLA haplotype.
Form	Liquid
Isotype	IgM, kappa
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. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Info — HLA-B

Entrez GeneID	3106
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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Disease

- Abortion
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Barrett Esophagus
- Behcet Syndrome
- Biliary Atresia
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Complex Regional Pain Syndromes
- Conjunctivitis
- Connective Tissue Diseases
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Endometriosis
- Epidermal Necrolysis
- Epilepsy
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Hematologic Neoplasms
- Hemochromatosis
- Hemoglobinuria
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Inflammation
- Inflammatory Bowel Diseases
- Iron Overload
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Moyamoya Disease
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Pancreatic cancer
- Pancreatic Neoplasms
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Pulmonary Disease
- Pulmonary Embolism
- Pulmonary Fibrosis
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Stomach Neoplasms
- Stomatitis
- Substance Abuse
- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.