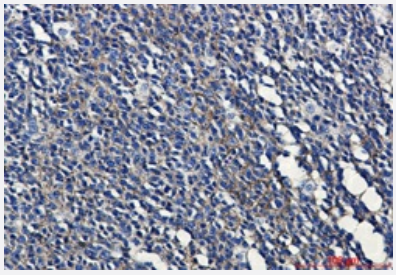
RecomAb™

HLA-A recombinant monoclonal antibody, clone R02-5C6

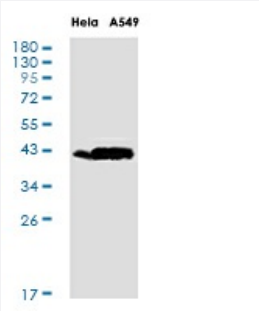
Catalog # RAB01243 Size 100 uL

Applications



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

Immunohistochemistry analysis of paraffin-embedded Human tonsil using MHC class I antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western Blot

Western blot analysis of MHC class I in Hela, A549 lysates using MHC Class I antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HLA-A.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human HLA-A.
Theoretical MW (kDa)	Calculated MW: 41 kD
Reactivity	Human
Form	Liquid

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Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at 4°C. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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

  Immunohistochemistry analysis of paraffin-embedded Human tonsil using MHC class I antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

- Western Blot

  Western blot analysis of MHC class I in Hela, A549 lysates using MHC Class I antibody.

Gene Info — HLA-A

Entrez GeneID	3105
Protein Accession#	P04439
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

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
- Abruptio Placentae
- Acquired Immunodeficiency Syndrome
- Acute Disease
- Addison Disease
- Adenocarcinoma

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- Adenovirus Infections
- Agranulocytosis
- AIDS-Related Opportunistic Infections
- Alcoholism
- Alopecia Areata
- Alveolar Bone Loss
- Alzheimer disease
- Anemia
- Aortic Aneurysm
- Aortic Diseases
- Arterial Occlusive Diseases
- Arthritis
- Asthma
- Atherosclerosis
- Autistic Disorder
- Autoimmune Diseases
- Autonomic Nervous System Diseases
- Behcet Syndrome
- Biliary Atresia
- Bipolar Disorder
- Birth Weight
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchiectasis
- Bronchiolitis

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- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- 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
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Cytomegalovirus Infections
- Cytomegalovirus Retinitis
- Dengue
- Dermatitis
- Diabetes Complications

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- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Drug Eruptions
- Drug Hypersensitivity
- Drug Toxicity
- Drug-Induced Liver Injury
- Duchenne muscular dystrophy
- Duodenal Ulcer
- Dystonia
- Encephalitis
- Encephalomyelitis
- Endometriosis
- Enterovirus Infections
- Epidermal Necrolysis
- Epilepsy
- Epstein-Barr Virus Infections
- Esophageal Neoplasms
- Exanthema
- Eye Diseases
- Eye Infections
- Fibrosis
- Gastritis
- Gastrointestinal Diseases
- Genetic Diseases
- Genetic Predisposition to Disease

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- 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
- Hemophilia A
- Hemophilia B
- Hemosiderosis
- Hepatitis
- Hepatitis A
- Hepatitis B
- Hepatitis C
- Hepatitis D
- Hereditary hemochromatosis
- Herpes Zoster
- Herpesviridae Infections

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- Histoplasmosis
- HIV Infections
- HIV Seropositivity
- Hodgkin Disease
- HTLV-I Infections
- Hyperplasia
- Hypersensitivity
- Hypertension
- IgA Deficiency
- IgG Deficiency
- Infection
- Infectious Mononucleosis
- Inflammation
- Iron Overload
- Joint Diseases
- Keloid
- Kidney Diseases
- Kidney Failure
- Knee Injuries
- Leprosy
- Leptospirosis
- Leukemia
- Leukemia-Lymphoma
- Lipodystrophy
- Liver Cirrhosis
- Lung carcinoma

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

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- Nephrotic Syndrome
- Neuralgia
- Neuroblastoma
- Neuromyelitis Optica
- Nut Hypersensitivity
- Obesity
- Occupational Diseases
- Optic Neuritis
- Oral Submucous Fibrosis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- 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

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- Pityriasis Rosea
- Polycystic Ovary Syndrome
- Porphyria
- Porphyria Cutanea Tarda
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications
- Prostate cancer
- Prostatic Neoplasms
- Proteinuria
- Psoriasis
- Psychotic Disorders
- Pulmonary Disease
- Pulmonary Embolism
- Purpura
- Recurrence
- Respiratory Tract Infections
- Retroperitoneal Fibrosis
- Rheumatic Diseases
- Rheumatic Heart Disease
- Salivary Gland Diseases
- Sarcoidosis
- Sarcoma
- Schizophrenia
- Severe Acute Respiratory Syndrome
- Sexually Transmitted Diseases

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- Skin Diseases
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Spinal Cord Diseases
- Spondylarthritis
- Spondylarthropathies
- Spondylitis
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Stomatitis
- Substance Abuse
- Temporomandibular Joint Disorders
- Thromboembolism
- Thrombophlebitis
- Thymoma
- Thymus Neoplasms
- Thyroiditis
- Translocation
- Tuberculosis
- Tumor Virus Infections
- Urticaria
- Uterine Cervical Neoplasms
- Uveitis
- Uveomeningoencephalitic Syndrome
- Venous Thrombosis
- Viremia

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- Vitiligo

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