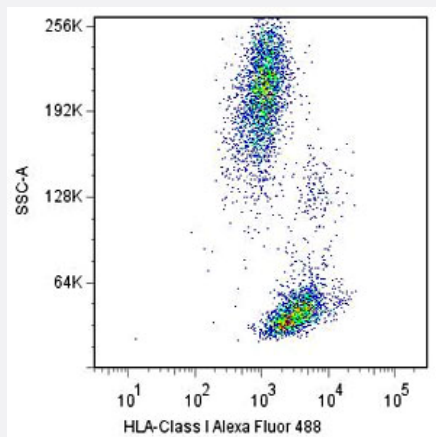


HLA-A monoclonal antibody, clone W6/32

Catalog # MAB6449 Size 10 x 100 ug, 100 ug

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with HLA-A monoclonal antibody, clone W6/32 (Cat # MAB6449) Alexa Fluor® 488.

Specification

Product Description	Mouse monoclonal antibody raised against native HLA-A.
Immunogen	Native purified HLA-A from membrane of human tonsil cells.
Host	Mouse
Reactivity	Bovine, Cat, Human, Non-Human Primates
Specificity	This antibody recognizes MHC Class I molecules (MHC Class Ia) that are expressed on the surface of all human nucleated cell types. This antibody is also suitable as a positive control for HLA tissue typing and crossmatching.
Form	Liquid
Concentration	1 mg/mL
Isotype	IgG2a
Recommend Usage	The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, pH 7.4
Storage Instruction	Store at 4°C. Do not freeze.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay
- Functional Study
- Flow Cytometry

Surface staining of human peripheral blood cells with HLA-A monoclonal antibody, clone W6/32 (Cat # MAB6449) Alexa Fluor® 488.

Gene Info — HLA-A

Entrez GeneID	3105
Gene Name	HLA-A
Gene Alias	HLAA
Gene Description	major histocompatibility complex, class I, A
Omim ID	106300 142800 608579
Gene Ontology	Hyperlink

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 in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes 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 binding specificity of each class I molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-A alleles have been described. [provided 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 class II|leukocyte antigen class I-A

Publication Reference

- [Application of lyophilised human platelets for antibody detection in solid phase red cell adherence assay.](#)

Shengbao Duan, Mingyuan Wang, Shaohua Ding, Yezhou Chen, Shuangshi Wei, Wei Chen, Chun Zhang, Yong Li, Hongmei Wang.

Journal of Immunological Methods 2020 Sep; 112868.

Application: Flow Cyt, Human, Human platelets

- [A new method for rapid cytotoxic T-lymphocyte induction using a multiple cytokine cocktail.](#)

Onishi H, Koya N, Kiyota A, Tanaka H, Umebayashi M, Katano M, Morisaki T.

Anticancer Research 2012 Jun; 32(6):2385.

Application: Func, Human, Hep-G2 cells

- [Expression of HLA-G in human cornea, an immune-privileged tissue.](#)

Le Discorde M, Moreau P, Sabatier P, Legeais JM, Carosella ED.

Human Immunology 2003 Nov; 64(11):1039.

Application: IHC-Fr, Human, Human Cornea

- [The epitope recognized by pan-HLA class I-reactive monoclonal antibody W6/32 and its relationship to unusual stability of the HLA-B27/beta2-microglobulin complex.](#)

Tran TM, Ivanyi P, Hilgert I, Brdicka T, Pla M, Breur B, Flieger M, Ivaskova E, Horejsi V.

Immunogenetics 2001 Aug; 53(6):440.

Application: WB-Ce, Human, Human peripheral blood lymphocytes

- [Residue 3 of beta2-microglobulin affects binding of class I MHC molecules by the W6/32 antibody.](#)

J J Ladasky, B P Shum, F Canavez, H N Seuanez, P Parham.

Immunogenetics 1999 Apr; 49(4):312.

Application: Flow Cyt, Monkey, OM VI-3 cells, Owl monkey 531H cells

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](#)
- [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](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)

- [Celiac Disease](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Chagas Cardiomyopathy](#)
- [Chagas Disease](#)
- [Chlamydomphila 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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)
- [Vitiligo](#)