

# Immunotag™ HLA Class I Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5837
Product Description	Immunotag™ HLA Class I Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be returned. It is not eligible for return.
Target Protein	HLA Class I
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000, ELISA 1:10000-20000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human HLA Class I. AA range:2-100
Specificity	The antibody detects endogenous HLA Class I protein
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific antigen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	HLA-A HLAA
Accession No.	P01891/P01892/P04439/P05534/P10314/P10316/P13746/P16189/P18462/P30443/P30450/P30453/P30454
Alternate Names	HLA-A HLAA

Antibody Specification	
Description	major histocompatibility complex, class I, A(HLA-A) Homo sapiens HLA-A belongs to the HLA class I heavy chain molecule. The heavy chain molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is transmembrane. Class I molecules play a central role in the immune system by presenting peptides derived from the extracellular space to the T cell receptor in the immunological synapse. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. 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 in exons 2, 3 and 4 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is important for bone marrow and kidney transplants.
Cell Pathway/ Category	Endocytosis,Cell adhesion molecules (CAMs),Antigen processing and presentation,Natural killer cell mediated cytotoxicity,Autoimmune thyroid disease,Allograft rejection,Graft-versus-host disease,Viral myocarditis, HIV infection.
Protein Expression	A*3201,Blood,Brain,Buffy coat,Hematopoietic,Liver,Lung,Lymphoid tissue
Subcellular Localization	Golgi membrane,endoplasmic reticulum,Golgi apparatus,Golgi medial cisterna,plasma membrane,integral component of membrane,cell surface,ER to Golgi transport vesicle membrane,membrane,integral component of membrane
Protein Function	function:Involved in the presentation of foreign antigens to the immune system.,polymorphism:The following alleles of A*0101 are known: A*0101, A*0102, A*0103, A*0106 and A*0107. The sequence shown is that of A*0101.,polymorphism:The following alleles of A*0102 are known: A*0102, A*0103, A*0104, A*0105 and A*0107. The sequence shown is that of A*0102.,polymorphism:The following alleles of A*0103 are known: A*0103, A*0104, A*0105 and A*0107. The sequence shown is that of A*0103.,polymorphism:The following alleles of A*0106 are known: A*0106, A*0107, A*0108, A*0109, A*0110, A*0111, A*0112, A*0113, A*0114, A*0115, A*0116, A*0117, A*0118, A*0119, A*0120, A*0121, A*0122, A*0123, A*0124, A*0125, A*0126, A*0127, A*0128, A*0129, A*0130, A*0131, A*0132, A*0133, A*0134, A*0135, A*0136, A*0137, A*0138, A*0139, A*0140, A*0141, A*0142, A*0143, A*0144, A*0145, A*0146, A*0147, A*0148, A*0149, A*0150, A*0151, A*0152, A*0153, A*0154, A*0155, A*0156, A*0157, A*0158, A*0159, A*0160, A*0161, A*0162, A*0163, A*0164, A*0165, A*0166, A*0167, A*0168, A*0169, A*0170, A*0171, A*0172, A*0173, A*0174, A*0175, A*0176, A*0177, A*0178, A*0179, A*0180, A*0181, A*0182, A*0183, A*0184, A*0185, A*0186, A*0187, A*0188, A*0189, A*0190, A*0191, A*0192, A*0193, A*0194, A*0195, A*0196, A*0197, A*0198, A*0199, A*0200, A*0201, A*0202, A*0203, A*0204, A*0205, A*0206, A*0207, A*0208, A*0209, A*0210, A*0211, A*0212, A*0213, A*0214, A*0215, A*0216, A*0217, A*0218, 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**Antibody Specification**

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