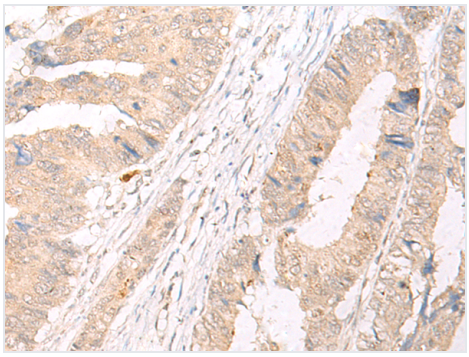
HLA-A/B/C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HLA-A/B/C, Polyclonal Antibody
Full Product Name	HLA-A/B/C Antibody
Product Gene Name	anti-HLA-A/B/C antibody
Product Synonym Names	AS; HLAB; B-4901
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	pH 7.4 PBS, 0.05% NaN3, 40% Glycerol
Purity/Purification	Antigen affinity purification
Concentration	0.5 mg/mL (lot specific)
Specificity	The antibody detects endogenous levels of total HLA-A/B/C protein.
Preparation and Storage	Store at -20 degree C.
Molecular Weight	40,460 Da
3D Structure	ModBase 3D Structure for P01889
Immunogen	Synthetic peptide of human HLA-A/B/C
Immunogen Type	Peptide
Product Categories/Family for anti-HLA-A/B/C antibody	Total protein Ab
Applications Tested/Suitable for anti-HLA-A/B/C antibody	Immunohistochemistry (IHC)
Application Notes for anti-HLA-A/B/C antibody	IHC: 1:30-150
Related Product Information for anti-HLA-A/B/C antibody	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 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, exon 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 one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-B alleles have been described.
Other Notes	Small volumes of anti-HLA-A/B/C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HLA-A/B/C purchase	MBS9430500 is an antibody targeting HLA-A/B/C. Also known as HLA-A/B/C Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-HLA-A/B/C antibody
The image is immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using 47518(HLA-A/B/C Antibody) at dilution 1/20.(Original magnification: 200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HLA-A/B/C. It may not necessarily be applicable to this product.

NCBI GI #	17986001
NCBI GeneID	3106
NCBI Accession #	NP_005505.2
UniProt Primary Accession #	P01889
UniProt Secondary Accession #	Q29638; Q29681; Q29854; Q29861; Q31613; Q5SRJ2; Q9GIX1; Q9TP95
UniProt Related Accession #	P01889; P03989; P10319; P18463; P18464; P18465; P30460; P30461; P30462; P30464
GenBank Nucleotide #	NM_005514.8
NCBI Official Full Name	major histocompatibility complex, class I, B
NCBI Official Synonym Full Names	major histocompatibility complex, class I, B
NCBI Official Symbol	HLA-B
NCBI Official Synonym Symbols	AS; HLAB; B-4901
UniProt Protein Name	HLA class I histocompatibility antigen, B-7 alpha chain
UniProt Synonym Protein Names	MHC class I antigen B*7
UniProt Gene Name	HLA-B
UniProt Synonym Gene Names	HLAB
NCBI Protein Information	major histocompatibility complex, class I, B
UniProt Comments for HLA-A/B/C	Involved in the presentation of foreign antigens to the immune system.
Research Articles on HLA-A/B/C	**1.** The HLA-B35 allele was significantly more common in patients with rheumatic heart disease than the control group (P = 0.043). The HLA-B44 allele was significantly more common in control patients than in patients with rheumatic heart disease (P = 0.014).
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