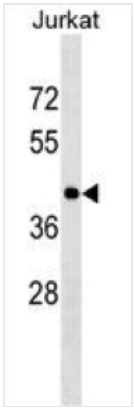
HLA-C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HLA-C, Polyclonal Antibody
Full Product Name	HLA-C, ID (HLA-C, HLAC, HLA class I histocompatibility antigen, Cw-7 alpha chain, MHC class I antigen Cw*7) (Biotin)
Product Gene Name	anti-HLA-C antibody
Product Synonym Names	HLA-C; HLAC; HLA class I histocompatibility antigen; Cw-7 alpha chain; MHC class I antigen Cw*7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human HLA-C.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	40,649 Da
OMIM	X83394 mRNA
3D Structure	ModBase 3D Structure for P10321
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 66-93 in the central region of human HLA-C, Swiss/UniProt Accession: P10321
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-HLA-C antibody	Antibodies; HLA
Applications Tested/Suitable for anti-HLA-C antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-HLA-C antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HLA-C antibody	HLA-C 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 endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, 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. Over one hundred HLA-C alleles have been described

Product References and Citations for anti-HLA-C antibody	1. Martin, M.P., et al. Immunogenetics 62 (11-12), 761-765 (2010). 2. Strange, A., et al. Nat. Genet. 42(11):985-990(2010). 3. Noble, J.A., et al. Diabetes 59(11):2972-2979(2010). 4. Honeyborne, I., et al. J. Virol. 84(21):11279-11288(2010). 5. Healy, B.C., et al. Neurology 75(7):634-640(2010).
Other Notes	Small volumes of anti-HLA-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-C purchase	MBS6307046 is an antibody targeting HLA-C. Also known as HLA-C, ID (HLA-C, HLAC, HLA class I histocompatibility antigen, Cw-7 alpha chain, MHC class I antigen Cw*7) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HLA-C antibody
Western Blot analysis in Jurkat cell line lysates (35ug/lane) usingMBS649026. This demonstrates that MBS649026 detected the HLA-C protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	52630342
NCBI GeneID	3107
NCBI Accession #	NP_002108.4
UniProt Primary Accession #	P10321
UniProt Secondary Accession #	O78061; O78083; Q29631; Q29652; Q29867; Q29990; Q95463; Q95603; Q9MY31; Q9TQP9
UniProt Related Accession #	P30499; P30501; P30504; P30505; Q07000; Q29865; Q29960; Q95604; P04222; P30508
GenBank Nucleotide #	NM_002117.5
NCBI Official Full Name	HLA class I histocompatibility antigen, Cw-1 alpha chain
NCBI Official Synonym Full Names	major histocompatibility complex, class I, C
NCBI Official Symbol	HLA-C
NCBI Official Synonym Symbols	MHC; HLAC; HLC-C; D6S204; PSORS1; HLA-JY3
UniProt Protein Name	HLA class I histocompatibility antigen, Cw-7 alpha chain
UniProt Synonym Protein Names	MHC class I antigen Cw*7
Protein Family	HLA class I histocompatibility antigen
UniProt Gene Name	HLA-C
UniProt Synonym Gene Names	HLAC
NCBI Protein Information	HLA class I histocompatibility antigen, Cw-1 alpha chain
UniProt Comments for HLA-C	Involved in the presentation of foreign antigens to the immune system.

Research Articles on HLA-C	**1.** The effect of patient and/or donor HLA-B*51:01 on acute graft-versus-host disease was attributed not only to strong linkage disequilibrium of HLA-C* 14:02 and HLA-B*51:01, but also to the effect of HLA-B*51:01 itself.
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