

Datasheet

HLA-B purified MaxPab mouse polyclonal antibody (B01P)

Catalog Number: H00003106-B01P

Regulatory Status: For research use only (RUO)

Product Description: Mouse polyclonal antibody raised against a full-length human HLA-B protein.

Immunogen: HLA-B (AAH13187.1, 1 a.a. ~ 362 a.a) full-length human protein.

Sequence:

MRVTAPRTVLLLLSGALALTETWAGSHSMRYFYTAMS
RPGRGEPFISVGYYDDTQFVRFDSDAASPREEPRAP
WIEQEGPEYWRNTQICKTNTQTYRESLRNLRGYYN
QSEAGSHTLQRMYGCDVGPDRLLRGHDQYAYDGK
DYIALNEDLSSWTAADTAAQITQRKWEAAREAEQLRA
YLEGLCVLEWLRRLYENGKETLQRADPPKTHVTHHPIS
DHEATLRCWALGFYPAEITLTWQRDGEDQTQDTELVE
TRPAGDRTFQKWAAVVVPSGEEQRYTCHVQHEGLPK
PLTLRWEPSQSTIPIVGIVAGLAVLAVVVIGAVVATVM
CRRKSSGGKGGSYSQAASSDSAQGSVDVSLTA

Host: Mouse

Reactivity: Human

Applications: WB-Ti, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3106

Gene Symbol: HLA-B

Gene Alias: AS, HLA-B-7301, HLA-B73, HLAB, HLAC, SPDA1

Gene Summary: 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. [provided by RefSeq]

References:

1. A Viral, Transporter Associated with Antigen Processing (TAP)-independent, High Affinity Ligand with Alternative Interactions Endogenously Presented by the Nonclassical Human Leukocyte Antigen E Class I Molecule. Lorente E, Infantes S, Abia D, Barnea E, Beer I, Garcia R, Lasala F, Jimenez M, Mir C, Morreale A, Admon A, Lopez D. J Biol Chem. 2012 Oct 12;287(42):34895-903. doi: 10.1074/jbc.M112.362293. Epub 2012 Aug 27.
2. MULTIPLE VIRAL LIGANDS NATURALLY PRESENTED BY DIFFERENT CLASS I MOLECULES IN TRANSPORTER ANTIGEN PROCESSING-DEFICIENT VACCINIA VIRUS-INFECTED CELLS. Lorente E, Infantes S, Barnea E, Beer I, Garcia R, Lasala F, Jimenez M, Vilches C, Lemonnier FA, Admon A, Lopez D. J Virol. 2011 Oct 26.
3. Allele-dependent Processing Pathways Generate the Endogenous Human Leukocyte Antigen (HLA) Class I Peptide Repertoire in Transporters Associated with Antigen Processing (TAP)-deficient Cells. Lorente E, Garcia R, Lopez D. J Biol Chem. 2011 Nov 4;286(44):38054-9. Epub 2011 Sep 13.