

Product datasheet for **AM32068PU-N**

HLAB (HLA-B) Mouse Monoclonal Antibody [Clone ID: EP-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EP-4
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Paraffin Sections: For use with paraformaldehyde fixed cell suspensions or cytopins. <i>Recommended Positive Control Tissue:</i> Blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Native purified from lymphocytes of HLA-B27 individual.
Specificity:	This antibody clone <i>EP-4</i> recognizes the HLA-B27 cell surface antigen on Human cells. Since <i>EP-4</i> recognizes the HLA-B27 antigen, it may be used to HLA type human lymphocytes. Approximately 60% of patients with ankylosing spondylitis are HLA-B27 positive. This reagent can be used to help identify this HLA haplotype in Human lymphocytes. Monoclonal antibody <i>EP-4</i> recognizes the HLA-B27 antigen expressed on individuals with this HLA haplotype.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	major histocompatibility complex, class I, B



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Database Link: [Entrez Gene 3106 Human P01889](#)

Background: 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

Synonyms: HLAB, MHC class I antigen B7