

MITD Rabbit mAb

Catalog No.: A28542 **Recombinant**

Basic Information

Observed MW

Refer to figures

Calculated MW

40 kDa

Category

Primary antibody

Applications

WB

Cross-Reactivity

Human

CloneNo number

ARC78374

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.

Recommended Dilutions

WB 1:500 - 1:1000

Immunogen Information

Gene ID

3106

Swiss Prot

P01889

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

AS; HLAB; B-4901

Contact

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Product Information

Source

Rabbit

Isotype**Purification**

Affinity purification

Storage

Store at -20°C