

Product Name: HLA-B Mouse Monoclonal Antibody

Catalog #: AMM81771

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,IHC,ICC,ELISA,FC

Reactivity Human

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 40.5kDa

Antigen Information

Gene Name HLA-B

Alternative Names AS; HLAB; Bw-47; Bw-50; SPDA1; B-4901; B-5001; HLA-Cw;

 Gene ID
 3106.0

 SwissProt ID
 P01889

Immunogen Purified recombinant fragment of human HLA-B (AA: 241-362) expressed in E. Coli.

Background

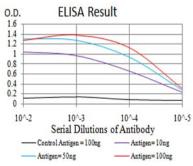
HLA-B belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells.



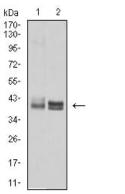
The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exon 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region and exons 6 and 7 encode the cytoplasmic 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.

Research Area

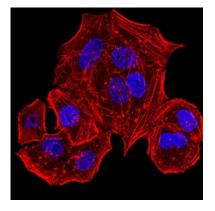
Image Data



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



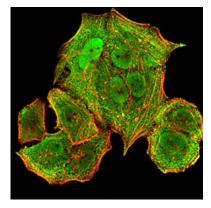
Western blot analysis using HLA-B mouse mAb against Ramos (1) and A431 (2) cell lysate.



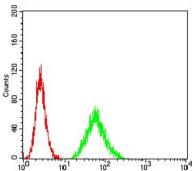
Immunofluorescence analysis of Hela cells using HLA-B mouse mAb. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

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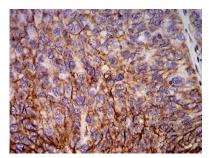




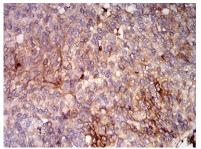
Immunofluorescence analysis of Hela cells using HLA-B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



Flow cytometric analysis of MCF-7 cells using HLA-B mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using HLA-B mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using HLA-B mouse mAb with DAB staining.