

## HLA Class 1 ABC monoclonal antibody

Catalog: MB9270

Host: Mouse

Reactivity: Human

### 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.

### Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

40 kDa

### Swiss-Prot:

P01889 Human;P30443 Human;P30499 Human

### Purification&Purity:

Protein affinity purified.

### Applications:

WB:1:500-1:2000

ICC:1:50-1:200

### Storage&Stability:

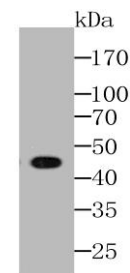
Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

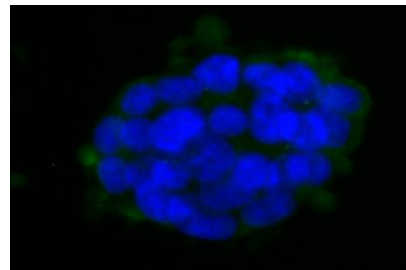
HLA Class 1 ABC monoclonal antibody detects endoge-

nous levels of HLA Class 1 ABC protein.

### DATA:



Western blot analysis of HLA Class 1 ABC on Hela lysate. Proteins were transferred to a nitrocellulose membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hour at room temperature. Chemiluminescent detection was performed using SuperSignal ECL Western Blotting Substrate (Product # K1801).



Immunocytochemistry staining HLA Class 1 ABC in 293T cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with Ki67 polyclonal antibody at a dilution of 1:100 for 1 hour at room temperature, washed with PBS. Alexa Fluor & 488 Goat anti-Mouse IgG was used as the secondary antibody at 1/100 dilution. The nuclear counterstain is DAPI (blue).

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

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