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**Product Name: HLA B7 (14R14) Rabbit Monoclonal Antibody****Catalog #: AMRe12077**

For research use only.

**Summary**

|                      |  |
|----------------------|--|
| <b>Description</b>   | Recombinant rabbit monoclonal antibody   |
| <b>Host</b>          | Rabbit   |
| <b>Application</b>   | WB,IHC,IF-P  |
| <b>Reactivity</b>    | Human  |
| <b>Conjugation</b>   | Unconjugated   |
| <b>Modification</b>  | Unmodified   |
| <b>Isotype</b>       | IgG  |
| <b>Clonality</b>     | Monoclonal   |
| <b>Form</b>          | Liquid   |
| <b>Concentration</b> | 0.5mg/ml. The concentration of this product may be batch-dependent.  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.  |
| <b>Shipping</b>      | Ice bags   |
| <b>Buffer</b>        | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Purification</b>  | Affinity purification  |

**Application**

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:1000-1:5000,IHC 1:200-1:500,IF-P 1:200-1:500 |
| <b>Molecular Weight</b> | 40kDa   |

**Antigen Information**

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Gene Name</b>         | HLA-B                               |
| <b>Alternative Names</b> | HLA B; HLAB;                        |
| <b>Gene ID</b>           | 3106.0                              |
| <b>SwissProt ID</b>      | P01889                              |
| <b>Immunogen</b>         | A synthetic peptide of human HLA B7 |

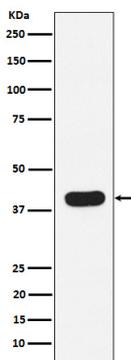
**Background**

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. Antigen-presenting major histocompatibility complex class I (MHCI) molecule. In complex with B2M/beta 2 microglobulin displays primarily viral and tumor-derived peptides on antigen-presenting cells for recognition by alpha-beta T cell receptor (TCR) on HLA-B-restricted CD8-positive T cells, guiding antigen-specific T cell immune response to eliminate infected or transformed cells (PubMed:25808313, PubMed:29531227, PubMed:9620674, PubMed:23209413). May also present self-peptides derived from the signal sequence of secreted or membrane proteins, although T cells specific for these peptides are usually inactivated to prevent autoreactivity (PubMed:7743181, PubMed:18991276). Both the peptide and the MHC molecule are recognized by TCR, the peptide is responsible for the fine specificity of antigen recognition and MHC residues account for the MHC restriction of T cells (PubMed:29531227, PubMed:9620674, PubMed:24600035). Typically presents intracellular peptide antigens of 8 to 13 amino acids that arise from cytosolic proteolysis via constitutive proteasome and IFNG-induced immunoproteasome (PubMed:23209413). Can bind different peptides containing allele-specific binding motifs, which are mainly defined by anchor residues at position 2 and 9 (PubMed:25808313, PubMed:29531227).

## Research Area

## Image Data



Western blot analysis of HLA B7 expression in Ramos cell lysate.