

10-6585: Mouse Monoclonal Antibody to HLA-B (Clone: 528CT10.4.1)(Discontinued)

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|--------------------------------|---|
| Clonality : | Monoclonal |
| Clone Name : | 528CT10.4.1 |
| Application : | WB |
| Reactivity : | Human |
| Gene : | HLA-B |
| Uniprot ID : | P03989 |
| Format : | Purified |
| Alternative Name : | HLA class I histocompatibility antigen, B-27 alpha chain, MHC class I antigen B*27, HLA-B, HLAB |
| Isotype : | Mouse IgM |
| Immunogen Information : | Synthetic Peptide |

Description

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 Info

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| Amount : | 80 µl / 400 µl |
| Content : | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS. |
| Storage condition : | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Application Note

WB~1:100~250

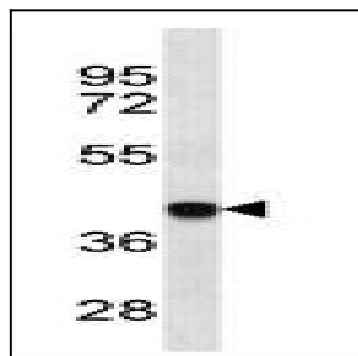


Figure 1: Western blot analysis of HLA-B Antibody (10-6585) in Ramos cell line lysates (35 $\frac{1}{4}$ g/lane). This demonstrates the HLA-B antibody detected the HLA-B protein.