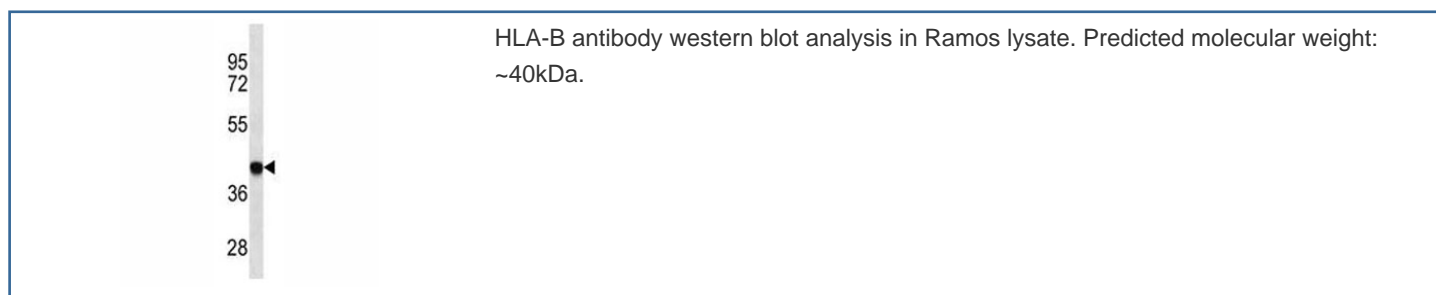


HLA-B Antibody [clone 528CT10.4.1] (F40002)

Catalog No.	Formulation	Size
F40002-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40002-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgM
Clone Name	528CT10.4.1
Purity	Purified
UniProt	P03989
Applications	Western Blot : 1:100-1:250
Limitations	This HLA-B antibody is available for research use only.



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.

Application Notes

Titration of the HLA-B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 62-90 from the human protein was used as the immunogen for this HLA-B antibody.

Storage

Aliquot the HLA-B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.