NSJ BIOREAGENTS

HLA-B Antibody (MHC Class I) [clone SPM420] (V8848)

Catalog No.	Formulation	Size
V8848-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8848-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8848SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG, kappa
Clone Name	SPM420
Purity	Protein A/G affinity
UniProt	P01889
Localization	Cell Surface
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
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 45kDa 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

Optimal dilution of the HLA-B antibody should be determined by the researcher.

Immunogen

Normal human peripheral blood lymphocytes were used as the immunogen for the HLA-B antibody.

Storage

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