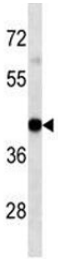
HLA-A Antibody [clone 7G7F9] (F40223)

Catalog No.	Formulation	Size
F40223-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40223-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Predicted Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	7G7F9
Purity	Purified
UniProt	P04439
Applications	Western Blot : 1:100-1:250
Limitations	This HLA-A antibody is available for research use only.



HLA-A antibody western blot analysis in mouse liver tissue lysate. Expected/observed molecular weight ~41kDa.

Description

HLA-A 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, exons 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-A alleles have been described.

Application Notes

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

Immunogen

A portion of amino acids 70-99 from the human protein was used as the immunogen for this HLA-A antibody.

Storage

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