HLA-C Rabbit pAb

Catalog No.: A1013

Basic Information

Catalog No.
A1013

Observed MW
41kDa

Calculated MW
41kDa

Category
Primary antibody

Applications
WB, IF

Cross-Reactivity
Human, Mouse

Background

HLA-C 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 endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, 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. Over one hundred HLA-C alleles have been described

Recommended Dilutions

WB	1:500 - 1:2000
IF	1:50 - 1:200

Immunogen Information

Gene ID
3107

Swiss Prot
P10321

Immunogen
Recombinant protein of human HLA-C

Synonyms
HLA-C;D6S204;HLA-JY3;HLAC;HLC-C;MHC;PSORS1

Contact

www.abclonal.com

Product Information

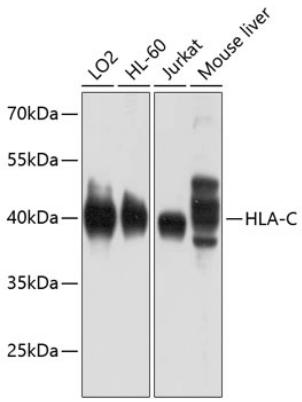
Source
Rabbit

Isotype
IgG

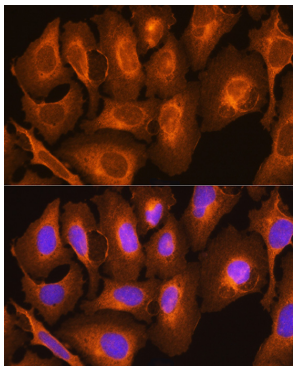
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using HLA-C antibody (A1013) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunofluorescence analysis of U2OS cells using HLA-C antibody (A1013) at dilution of 1:100. Blue: DAPI for nuclear staining.