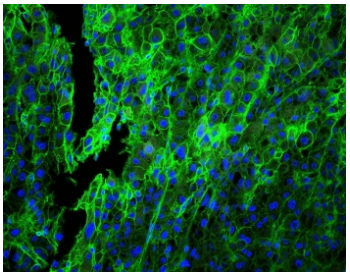
HLA-C Antibody (R32369)

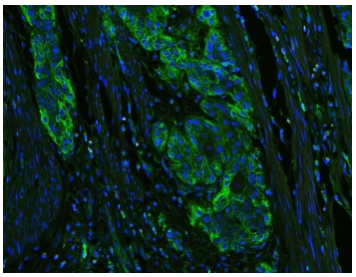
Catalog No.	Formulation	Size
R32369	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

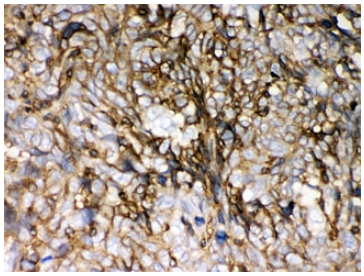
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	U5YBW8
Localization	Cytoplasmic, membranous
Applications	Western blot: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunocytochemistry (FFPE): 0.5-1ug/ml Immunofluorescence (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/10^6 cells
Limitations	This HLA-C antibody is available for research use only.



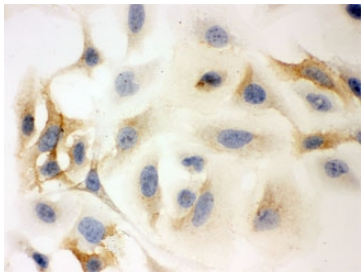
Immunofluorescent staining of FFPE human lung cancer with HLA-C antibody (green) at 1ug/ml and DAPI nuclear stain. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



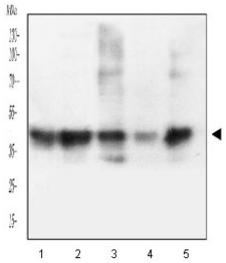
Immunofluorescent staining of FFPE human esophageal squamous cancer with HLA-C antibody (green) at 1ug/ml and DAPI nuclear stain. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



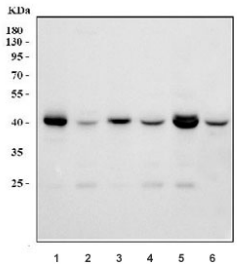
IHC testing of FFPE human lung cancer with HLA-C antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



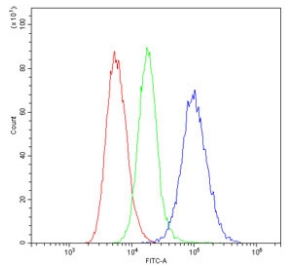
ICC testing of FFPE human HeLa cells with HLA-C antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Western blot testing of human 1) U937, 2) Jurkat, 3) HeLa, 4) A549 and 5) U-87 MG cell lysate with HLA-C antibody. Expected molecular weight ~41 kDa.



Western blot testing of human 1) A431, 2) 293T, 3) Jurkat, 4) U-2 OS, 5) HeLa and 6) HepG2 cell lysate with HLA-C antibody. Expected molecular weight ~41 kDa.



Flow cytometry testing of human SiHa cells with HLA-C antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HLA-C antibody.

Description

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.

Application Notes

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

Immunogen

Amino acids EYWDRETQKYKRQAQADRVNLRKLR of human HLA-C were used as the immunogen for the HLA-C antibody.

Storage

After reconstitution, the HLA-C antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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