For Research Use Only

HLA class I ABC Monoclonal antibody

Catalog Number:66013-1-Ig Featured Product 16 Publications

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Basic Information

Catalog Number:
66013-1-Ig

Size:
1000 ug/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG7488

GenBank Accession Number:
BC003069

GeneID (NCBI):
3105

UNIPROT ID:
P04439

Full Name:
major histocompatibility complex, class I, A

Calculated MW:
41 kDa

Observed MW:
40-44 kDa

Purification Method:
Protein A purification

CloneNo.:
5C5B7

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:1000-1:10000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, FC, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, pig

Cited Species:
human, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, human white blood, NCCIT cells, pig spleen tissue, U-937 cells, Raji cells, HEK-293 cells, Jurkat cells

IHC : human tonsillitis tissue, human liver cancer tissue, human stomach cancer tissue

IF/ICC : Raji cells,

Background Information

Human major histocompatibility complex (MHC) antigens, also referred to as human leukocyte antigens (HLA), are encoded by genes located on the short arm of chromosome 6 (6p21.3). There are two classes of HLA antigens: class I (HLA-A, B and C) and class II (HLA-D). This class I molecules are polymorphic membrane glycoproteins composed of a heavy (alpha) chain (44 kDa) which is encoded by a HLA class I gene (HLA-A, B or C), and β 2-microglobulin light (beta) chain (12 kDa). They are involved in the presentation of foreign antigens to the immune system. (PMID: 667938; 3375250)

Notable Publications

Author	Pubmed ID	Journal	Application
Fengwen Zhang	36136978	Proc Natl Acad Sci U S A	WB,IP
Fengwen Zhang	35665005	bioRxiv	WB
Melania Scarpa	31646078	Oncoimmunology	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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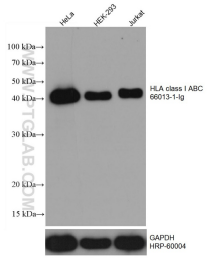
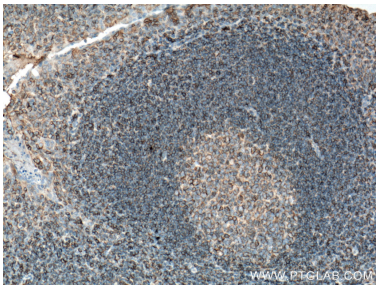
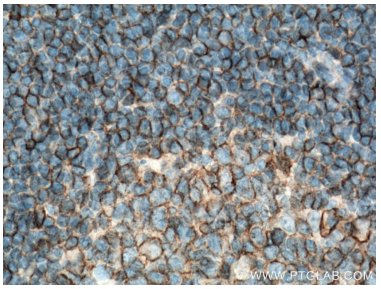
Selected Validation Data



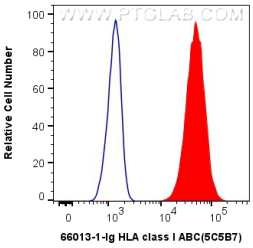
Various lysates were subjected to SDS PAGE followed by western blot with 66013-1-Ig (HLA class I ABC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



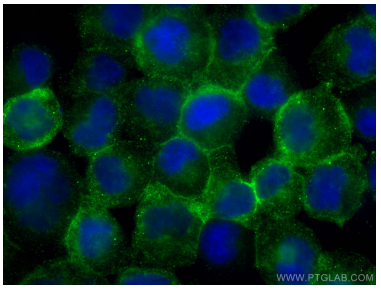
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66013-1-Ig (HLA class I ABC antibody) at dilution of 1:10000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66013-1-Ig (HLA class I ABC antibody) at dilution of 1:10000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 Raji cells were surface stained with 0.4 ug Anti-Human HLA class I ABC (66013-1-Ig, Clone:5C5B7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed Raji cells using HLA class I ABC antibody (66013-1-Ig, Clone: 5C5B7) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).