For Research Use Only

HLA class I ABC Monoclonal antibody

Catalog Number:66013-1-lg Featured Product

16 Publications



Basic Information

Catalog Number: GenBank Accession Number: 66013-1-lg BC003069 GeneID (NCBI): Concentration: 1000 ug/ml 3105 **UNIPROT ID:** Source: Mouse P04439

Full Name: Isotype: lgG2b major histocompatibility complex,

class I. A Immunogen Catalog Number:

AG7488 Calculated MW: 41 kDa

> Observed MW: 40-44 kDa

Purification Method:

Protein A purification CloneNo.:

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

FC: 0.40 ug per 10^6 cells in a 100 µl

suspension

5C5B7

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 : Raii cells. FC: 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.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

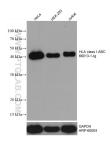
Aliquoting is unnecessary for -20°C storage

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

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



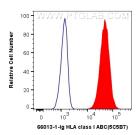
Various lysates were subjected to SDS PAGE followed by western blot with 66013-1-1g (HLA class I ABC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



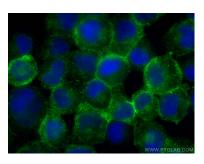
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66013-1-lg (HLA class I ABC antibody) at dilution of 1:10000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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-lg, Clone:5C5B7) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgC(H-L) at dilution 1:1000 (red), or 0.4 ug Mouse IgC3b Isotype Control (MPC-11) (65128-1-lg, 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).