

# HLA class I ABC Monoclonal ANTIBODY

Catalog Number: 66013-1-Ig

Featured Product

4 Publications

## Basic Information

**Catalog Number:**  
66013-1-Ig

**Size:**  
166 µg/150 µl

**Source:**  
Mouse

**Isotype:**  
IgG2b

**Purification Method:**  
Protein A purification

**Immunogen Catalog Number:**  
AG7488

**GenBank Accession Number:**  
BC003069

**GeneID (NCBI):**  
3105

**Full Name:**  
major histocompatibility complex, class I, A

**Calculated MW:**  
41 kDa

**Observed MW:**  
40-44 kDa

**Recommended Dilutions:**

WB 1:2000-1:10000

IHC 1:1000-1:10000

## Applications

**Tested Applications:**

FC, IHC, WB, ELISA

**Cited Applications:**

IHC, WB

**Species Specificity:**

human, pig

**Cited Species:**

human

**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,  
U-937 cells, Raji cells, HEK-293 cells

IHC : human tonsillitis tissue;

## 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 β2-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
Wei-Hua Qiao	27957807	J Tissue Eng Regen Med	WB
Zhao Xiaogang X	22320985	Asian Pac J Cancer Prev	IHC
Qi Wen Deng	31434741	J Biol Chem	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

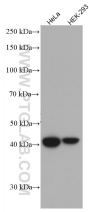
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

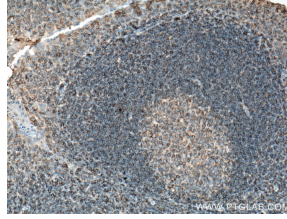
E: proteintech@ptglab.com  
W: ptglab.com

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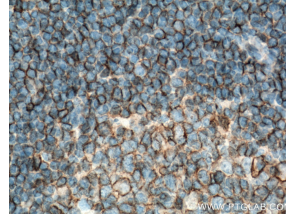
## Selected Validation Data



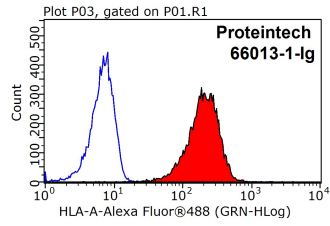
Various lysates were subjected to SDS PAGE followed by western blot with 66013-1-Ig (HLA class I ABC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours



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 retrieved with Tris-EDTA buffer (pH9).



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 retrieved with Tris-EDTA buffer (pH9).



1X10<sup>6</sup> Hep2 cells were stained with .2ug HLA class I ABC antibody (66013-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.