

For Research Use Only

# HLA-A Polyclonal antibody

Catalog Number: 55383-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 55383-1-AP	<b>GenBank Accession Number:</b> NM_002116	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3105	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:50-1:500 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04439	
<b>Isotype:</b> IgG	<b>Full Name:</b> major histocompatibility complex, class I, A	
	<b>Calculated MW:</b> 41 kDa	
	<b>Observed MW:</b> 41-44 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, A431 cells
<b>Cited Applications:</b> IHC, IF	<b>IHC :</b> human tonsillitis tissue, human small intestine tissue
<b>Species Specificity:</b> human	<b>IF/ICC :</b> HepG2 cells,
<b>Cited Species:</b> human	

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

## 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  $\beta$ 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
Lucas A Tavares	31915283	J Virol	IF
Yanling Wang	38694916	Front Pharmacol	IHC

## Storage

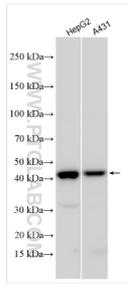
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

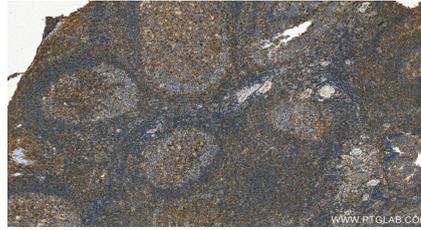
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

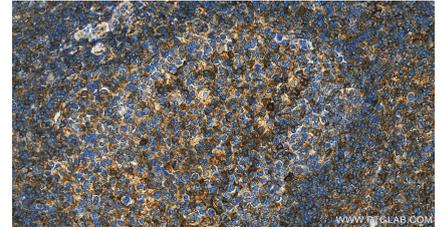
## Selected Validation Data



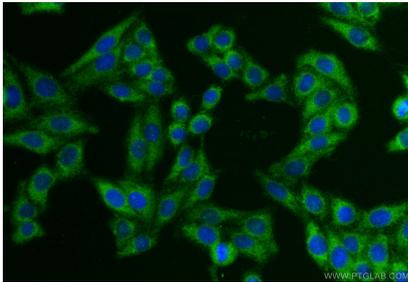
Various lysates were subjected to SDS PAGE followed by western blot with 55383-1-AP (HLA-A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 55383-1-AP (HLA-A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 55383-1-AP (HLA-A antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using HLA-A antibody (55383-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).