

For Research Use Only

# HLA-F Monoclonal antibody

Catalog Number: 66819-1-Ig



## Basic Information

<b>Catalog Number:</b> 66819-1-Ig	<b>GenBank Accession Number:</b> BC062991	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1400 ug/ml by Nanodrop and 940 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3134	<b>CloneNo.:</b> 1B12C2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P30511	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:8000-1:32000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> major histocompatibility complex, class I, F	
<b>Immunogen Catalog Number:</b> AG6475	<b>Calculated MW:</b> 39 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

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

**Species Specificity:**  
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:** A431 cells, NCCIT cells, Raji cells, human peripheral blood leukocytes

**IHC:** human tonsillitis 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 and class II. This class I molecules are membrane glycoproteins composed of a heavy (alpha) chain which is encoded by a HLA class I gene, and  $\beta$ 2-microglobulin light (beta) chain. The most extensively characterized members of the HLA class I gene family are the genes encoding the major transplantation antigens, HLA-A, B and C. HLA-F is a non-classical MHC class I molecule. (PMID: 667938; 3375250; 2249951)

## 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

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

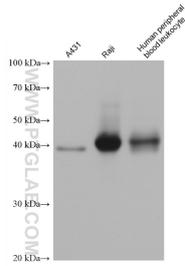
For technical support and original validation data for this product please contact:

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

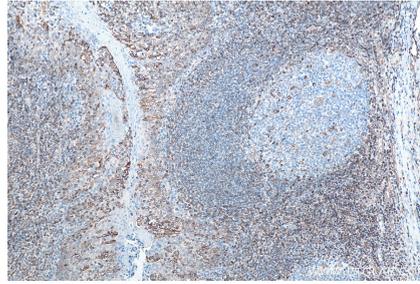
E: proteintech@ptglab.com  
W: ptglab.com

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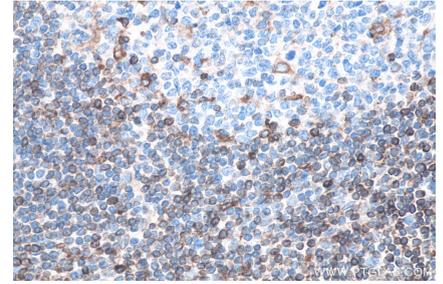
## Selected Validation Data



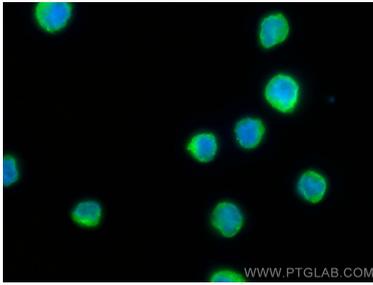
Various lysates were subjected to SDS PAGE followed by western blot with 66819-1-Ig (HLA-F antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66819-1-Ig (HLA-F antibody) at dilution of 1:16000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66819-1-Ig (HLA-F antibody) at dilution of 1:16000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Raji cells using HLA-F antibody (66819-1-Ig, Clone: 1B12C2) at dilution of 1:800 and CoralLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).