

# HLA-F Monoclonal antibody

Catalog Number: 66819-1-Ig

## Basic Information

## Catalog Number:

66819-1-Ig

## Size:

1400 µg/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG6475

## GenBank Accession Number:

BC062991

## GeneID (NCBI):

3134

## UNIPROT ID:

P30511

## Full Name:

major histocompatibility complex,  
class I, F

## Calculated MW:

39 kDa

## Observed MW:

40-45 kDa

## Purification Method:

Protein G purification

## CloneNo.:

1B12C2

## Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:8000-1:32000

IF/ICC 1:400-1:1600

## Applications

## Tested Applications:

WB, IF/ICC, IHC, 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:

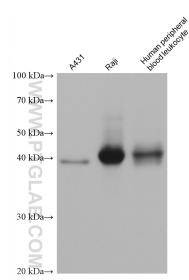
Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

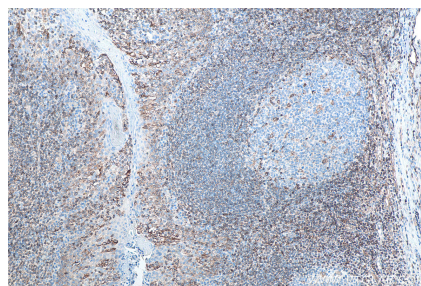
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

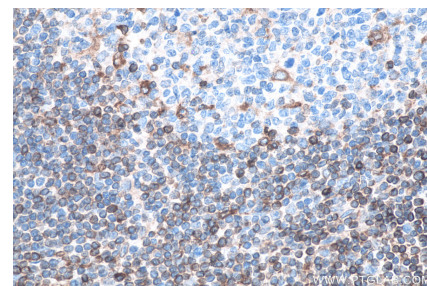
## Selected Validation Data



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 Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).