

For Research Use Only

# LAIR1 Monoclonal antibody

Catalog Number: 67220-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67220-1-Ig	<b>GenBank Accession Number:</b> BC027899	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3903	<b>CloneNo.:</b> 1A5D1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q6GTX8	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF-P 1:200-1:800 IF/ICC 1:1000-1:4000
<b>Isotype:</b> IgG2a	<b>Full Name:</b> leukocyte-associated immunoglobulin-like receptor 1	
<b>Immunogen Catalog Number:</b> AG14459	<b>Calculated MW:</b> 287 aa, 31 kDa	
	<b>Observed MW:</b> 40-50 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> WB : THP-1 cells, HL-60 cells, TF-1 cells
<b>Cited Applications:</b> WB, IHC, IF	<b>IHC :</b> human tonsillitis tissue,
<b>Species Specificity:</b> human	<b>IF-P :</b> human tonsillitis tissue,
<b>Cited Species:</b> human	<b>IF/ICC :</b> THP-1 cells,

**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

Leukocyte-associated immunoglobulin-like receptor 1 (LAIR1) is a transmembrane glycoprotein with a single immunoglobulin-like domain and a cytoplasmic tail containing two immune receptor tyrosine-based inhibitory motifs (PMID: 9285412). LAIR1 is expressed on the majority of human PBMCs, including NK, T, B, monocytes, and dendritic cells, as well as the majority of thymocytes (PMID: 10229813). It functions as an inhibitory receptor that plays a constitutive negative regulatory role on cytolytic function of NK cells, B cells and T cells. LAIR1 is a collagen receptor (PMID: 16754721). Tumor-expressed collagens can modulate immune cell function through the inhibitory collagen receptor LAIR1 (PMID: 21955987).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhansheng Fang	35702880	Cancer Med	WB,IHC,IF

## 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

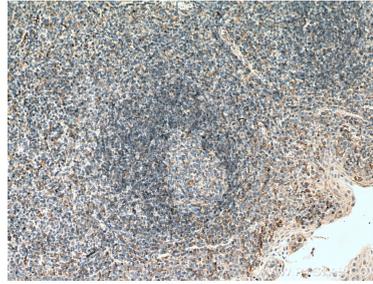
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

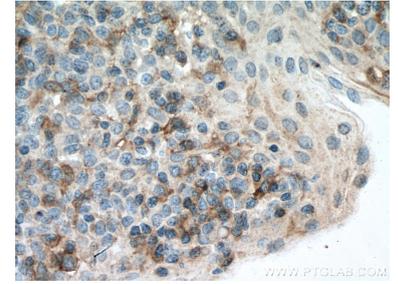
## Selected Validation Data



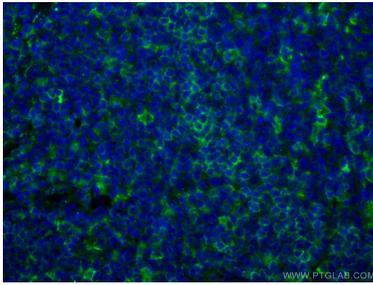
THP-1 cells were subjected to SDS PAGE followed by western blot with 67220-1-Ig (LAIR1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



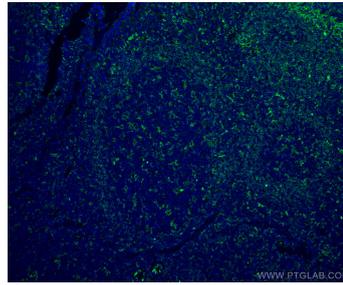
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67220-1-Ig (LAIR1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



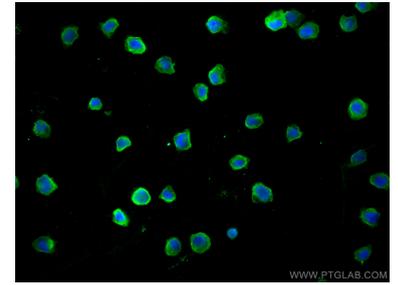
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67220-1-Ig (LAIR1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using LAIR1 antibody (67220-1-Ig, Clone: 1A5D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using LAIR1 antibody (67220-1-Ig, Clone: 1A5D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using LAIR1 antibody (67220-1-Ig, Clone: 1A5D1) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).