For Research Use Only

LAIR1 Monoclonal antibody

Catalog Number:67220-1-Ig 1 Publications

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Basic Information

Catalog Number:
67220-1-Ig

Size:
150ul , Concentration: 2100 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG14459

GenBank Accession Number:
BC027899

GeneID (NCBI):
3903

Full Name:
leukocyte-associated immunoglobulin-like receptor 1

Calculated MW:
287 aa, 31 kDa

Observed MW:
40-50 kDa

Purification Method:
Protein A purification

CloneNo.:
1A5D1

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:50-1:500
IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, WB,ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
Human

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 : THP-1 cells, HL-60 cells, TF-1 cells

IHC : human tonsillitis tissue,

IF : human tonsillitis tissue,

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

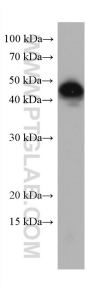
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

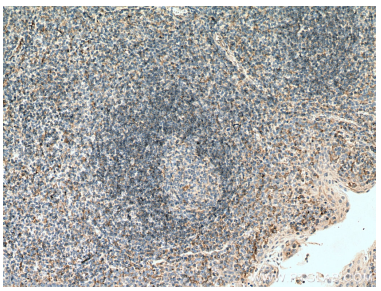
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

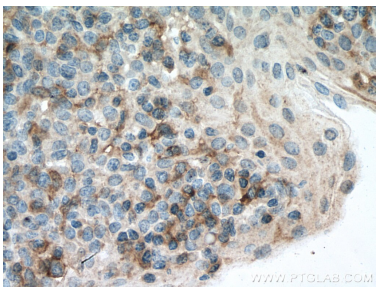
Selected Validation Data



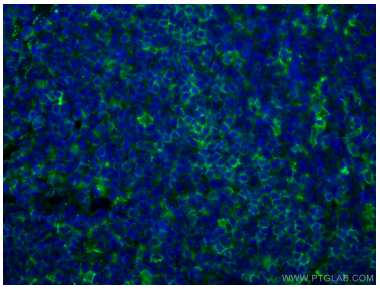
THP-1 cells were subjected to SDS PAGE followed by western blot with 67220-1-Ig (LAIR1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



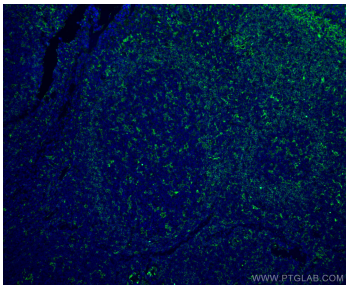
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67220-1-Ig (LAIR1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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