

For Research Use Only

# LAIR1 Recombinant antibody

Catalog Number: 85010-1-RR



## Basic Information

<b>Catalog Number:</b> 85010-1-RR	<b>GenBank Accession Number:</b> NM_001113474.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 52855	<b>CloneNo.:</b> 242226B10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8BG84-1	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> leukocyte-associated Ig-like receptor 1	
	<b>Calculated MW:</b> 30kDa	
	<b>Observed MW:</b> 35 kDa, 45 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> mouse	<b>WB :</b> mouse spleen tissue, <b>IF/ICC :</b> RAW 264.7 cells,

## 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).

## Storage

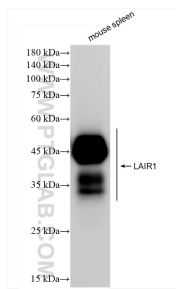
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

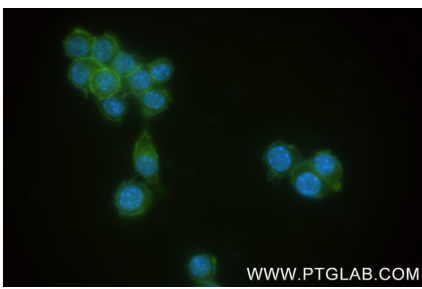
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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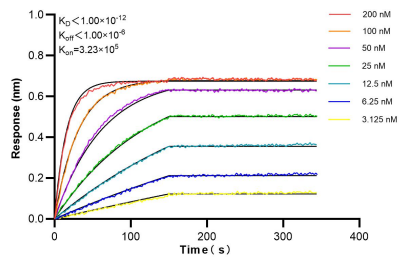
## Selected Validation Data



mouse spleen tissue were subjected to SDS PAGE followed by western blot with 85010-1-RR (LAIR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using LAIR1 antibody (85010-1-RR, Clone: 242226B10 ) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 85010-1-RR against Mouse LAIR1 were performed. The affinity constant is below 1 pM.