

For Research Use Only

# IL-1R1 Polyclonal antibody

Catalog Number: 27348-1-AP



## Basic Information

<b>Catalog Number:</b> 27348-1-AP	<b>GenBank Accession Number:</b> BC075063	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3554	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:250-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> interleukin 1 receptor, type I	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 569 aa, 65 kDa	
<b>Immunogen Catalog Number:</b> AG25998	<b>Observed MW:</b> 80 kDa, 60 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human, mouse

**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:** Jurkat cells, MOLT-4 cells, Raji cells, EL-4-B5 cells, NIH/3T3 cells, mouse liver tissue

**IHC:** mouse spleen tissue, human appendicitis tissue

## Background Information

IL-1R1 (IL-1 receptor type 1, also known as p80, IL-1R-alpha or CD121a) is a 80 kDa transmembrane glycoprotein and a member of the interleukin-1 receptor family (PMID: 35163653; 29248002). It is a receptor for IL-1 $\alpha$ , IL-1 $\beta$ , and interleukin-1 receptor antagonist (IL-1Ra). IL-1 $\alpha$  and IL-1 $\beta$  interact with the extracellular domain of IL-1R1, triggering the recruitment of an accessory receptor, the IL-1RAcP, resulting in a functional receptor complex that initiates IL-1R1 signaling cascades (PMID: 35163653). IL-1Ra competes with active IL-1 and blocks binding to their common activating receptor IL-1R1 and, thus, inhibits IL-1 signaling (PMID: 35332327; 11641511). It has been reported that IL-1R1 may also bind IL-38 (PMID: 29248002). IL-1R1 expression has been found in many cell types including T cells, macrophages, neutrophils, eosinophils, basophils, mast cells, fibroblasts, and endothelial cells. IL-1R1 can be released from the cell surface following proteolytic cleavage, generating a soluble form of 55-60 kDa (PMID: 17324958).

## 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

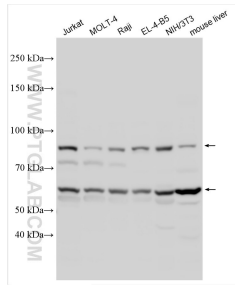
For technical support and original validation data for this product please contact:

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

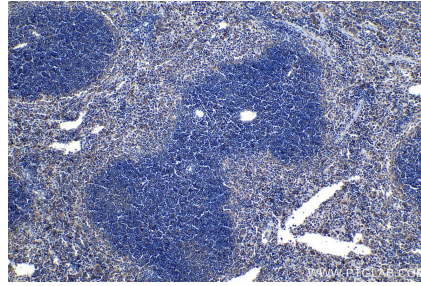
E: proteintech@ptglab.com  
W: ptglab.com

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

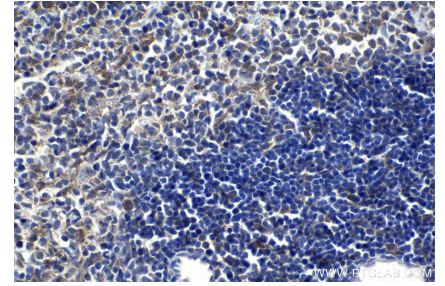
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27348-1-AP (IL-1R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 27348-1-AP (IL-1R1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 27348-1-AP (IL-1R1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).