

# IL-1R1 Recombinant antibody

Catalog Number: 84094-6-RR

## Basic Information

<b>Catalog Number:</b> 84094-6-RR	<b>GenBank Accession Number:</b> NM_008362.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 16177	<b>CloneNo.:</b> 241392G7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P13504-1	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 1 receptor, type I	
	<b>Calculated MW:</b> 67 kDa	
	<b>Observed MW:</b> 75-100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : mouse liver tissue, EL-4-B5 cells
<b>Species Specificity:</b> mouse	<b>IHC :</b> mouse liver tissue, <b>IF/ICC :</b> NIH/3T3 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

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

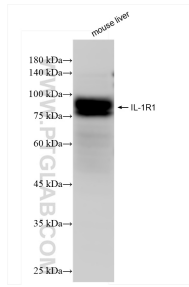
T: 4006900926

E: Proteintech-CN@ptglab.com

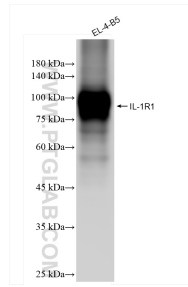
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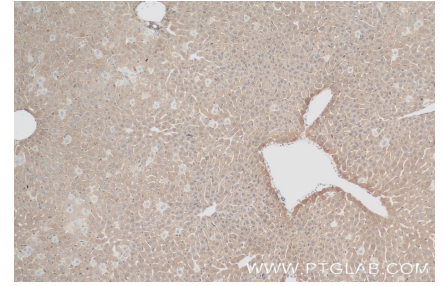
## Selected Validation Data



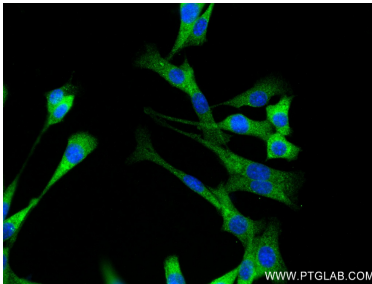
mouse liver tissue were subjected to SDS PAGE followed by western blot with 84094-6-RR (IL-1R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



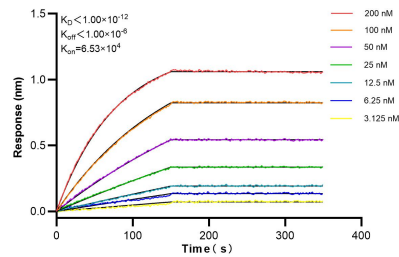
EL-4-B5 cells were subjected to SDS PAGE followed by western blot with 84094-6-RR (IL-1R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 84094-6-RR (IL-1R1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using IL-1R1 antibody (84094-6-RR, Clone: 241392G7) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84094-6-RR against Mouse IL-1R1 were performed. The affinity constant is below 1 pM.