

For Research Use Only

Mouse IL-1R1 Recombinant antibody, PBS Only

Catalog Number: 84094-6-PBS



Basic Information

| | | | | | |
|-----------------|-------------|---------------------------|--------------------------------|----------------------|------------------------|
| Catalog Number: | 84094-6-PBS | GenBank Accession Number: | NM_008362.2 | Purification Method: | Protein A purification |
| Size: | 1 mg/ml | GeneID (NCBI): | 16177 | CloneNo.: | 241392G7 |
| Source: | Rabbit | UNIPROT ID: | P13504-1 | | |
| Isotype: | IgG | Full Name: | interleukin 1 receptor, type I | | |
| | | Calculated MW: | 67 kDa | | |
| | | Observed MW: | 75-100 kDa | | |

Applications

Tested Applications:
WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:
mouse

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 α , IL-1 β , and interleukin-1 receptor antagonist (IL-1Ra). IL-1 α and IL-1 β 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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

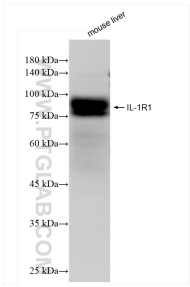
T: 4006900926

E: Proteintech-CN@ptglab.com

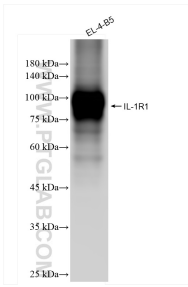
W: ptgcn.com

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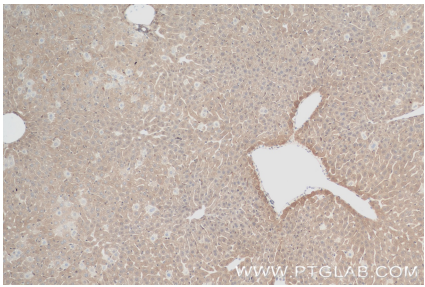
Selected Validation Data



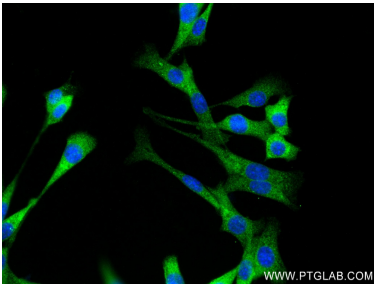
mouse liver tissue were subjected to SDS PAGE followed by western blot with 84094-6-RR (IL-1R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84094-6-PBS in a different storage buffer formulation.



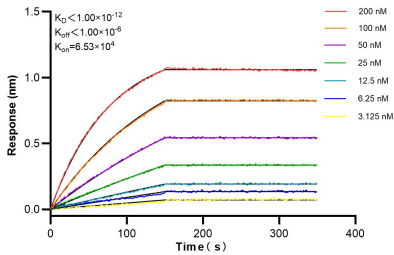
EL-4-B5 cells were subjected to SDS PAGE followed by western blot with 84094-6-RR (IL-1R1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84094-6-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84094-6-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84094-6-PBS in a different storage buffer formulation.



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