

For Research Use Only

IL-1R1 Polyclonal antibody

Catalog Number: 27348-1-AP

3 Publications



Basic Information

Catalog Number:

27348-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25998

GenBank Accession Number:

BC075063

GeneID (NCBI):

3554

UNIPROT ID:

P14778

Full Name:

interleukin 1 receptor, type I

Calculated MW:

569 aa, 65 kDa

Observed MW:

80 kDa, 60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:300-1:1200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human, mouse

Cited Species:

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 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhongwu Su	40109664	Front Neurosci	IF
Xiaoping Xie	38889468	J Hazard Mater	IF
Zhongwu Su	38490286	Exp Gerontol	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

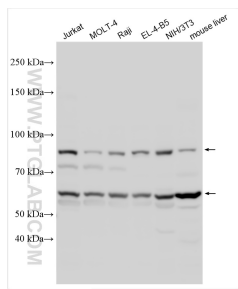
T: 4006900926

E: Proteintech-CN@ptglab.com

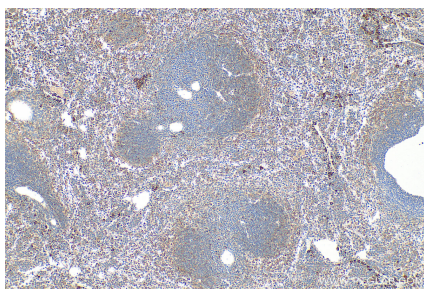
W: ptgcn.com

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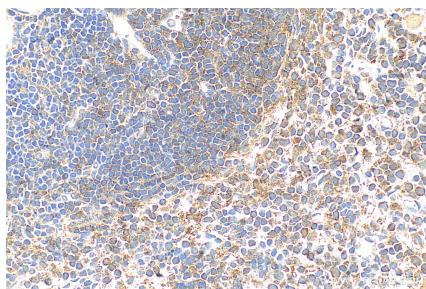
Selected Validation Data



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 1:600 (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 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).