

Mouse Monoclonal Antibody to IL1R1
Purified Mouse Monoclonal Antibody
Catalog # AO2439a**Specification**

Mouse Monoclonal Antibody to IL1R1 - Product Information

Application	WB, FC, E
Primary Accession	P14778
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	65.4kDa KDa

Description

This gene encodes a cytokine receptor that belongs to the interleukin-1 receptor family. The encoded protein is a receptor for interleukin-1 alpha, interleukin-1 beta, and interleukin-1 receptor antagonist. It is an important mediator involved in many cytokine-induced immune and inflammatory responses. This gene is located in a cluster of related cytokine receptor genes on chromosome 2q12.;

Immunogen

Purified recombinant fragment of human IL1R1 (AA: 18-167) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

Application Note

ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to IL1R1 - Additional Information

Gene ID 3554

Other Names

P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha

Dilution

WB~~1:1000
FC~~1:10~50
E~~N/A

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Monoclonal Antibody to IL1R1 is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to IL1R1 - Protein Information

Name IL1R1

Synonyms IL1R, IL1RA, IL1RT1

Function

Receptor for IL1A, IL1B and IL1RN (PubMed:2950091, PubMed:37315560). After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa- B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (PubMed:10653850).

Cellular Location

Membrane; Single- pass type I membrane protein. Cell membrane. Secreted

Tissue Location

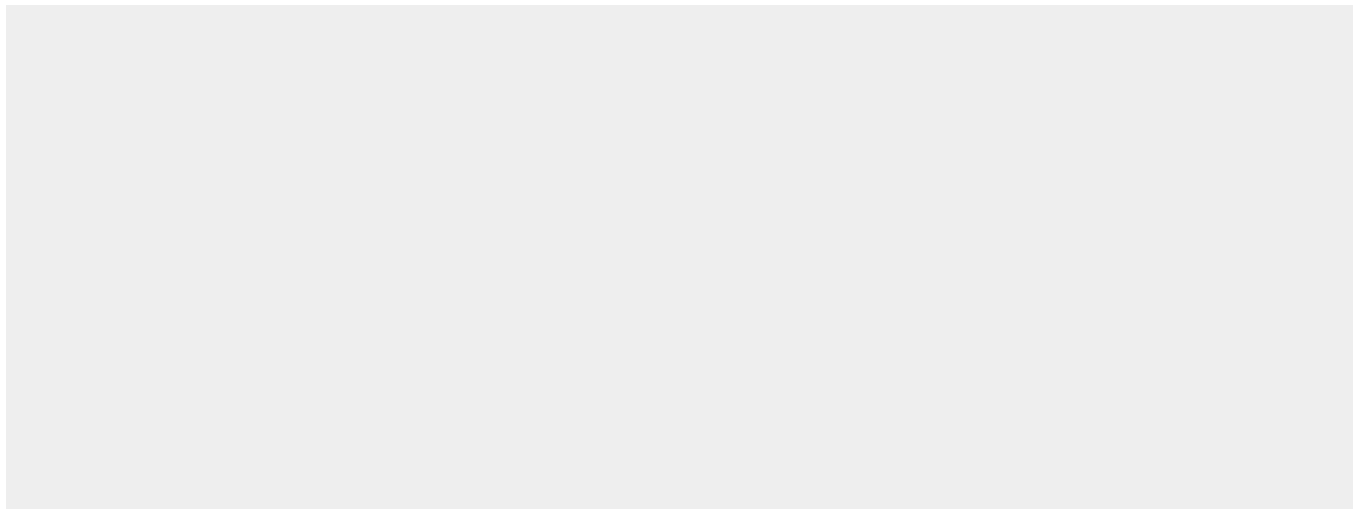
Expressed in T-helper cell subsets. Preferentially expressed in T-helper 1 (Th1) cells.

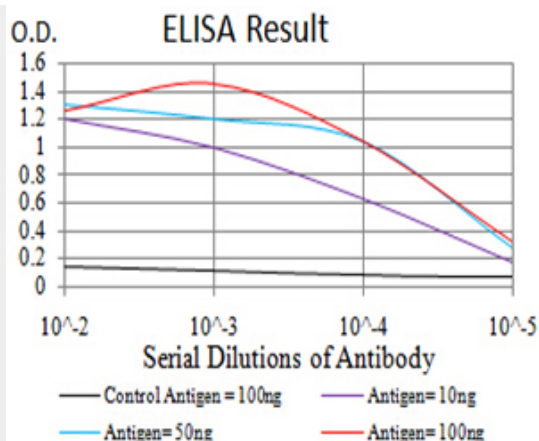
Mouse Monoclonal Antibody to IL1R1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

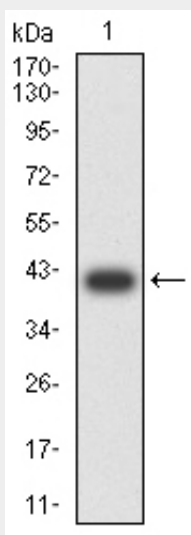
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Monoclonal Antibody to IL1R1 - Images

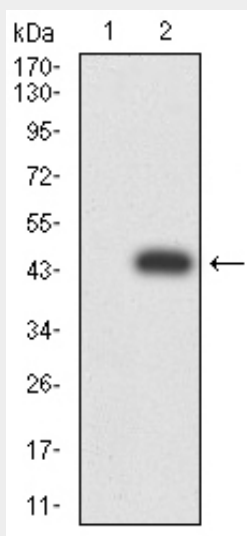




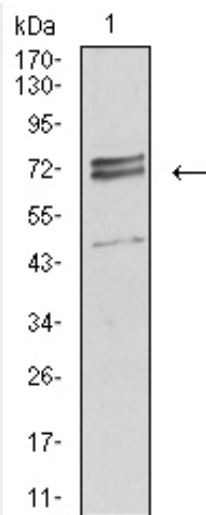
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



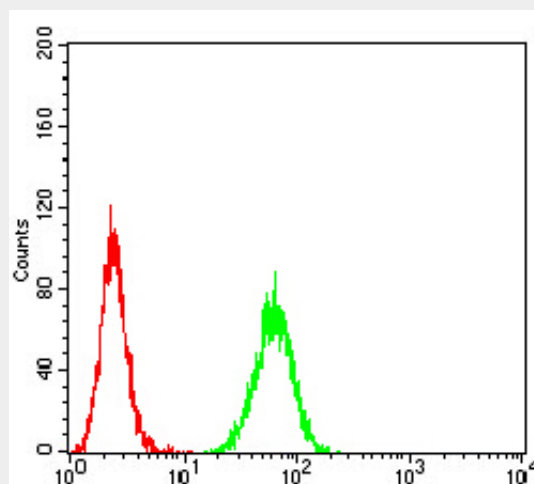
Western blot analysis using IL1R1 mAb against human IL1R1 (AA: 18-167) recombinant protein. (Expected MW is 40.8 kDa)



Western blot analysis using IL1R1 mAb against HEK293 (1) and IL1R1 (AA: 18-167)-hlgGfC transfected HEK293 (2) cell lysate.



Western blot analysis using IL1R1 mouse mAb against HeLa (1) cell lysate.



Flow cytometric analysis of HeLa cells using IL1R1 mouse mAb (green) and negative control (red).

Mouse Monoclonal Antibody to IL1R1 - References

1.PLoS One. 2015 Jun 22;10(6):e0131086. ; 2.Biochem Pharmacol. 2011 Nov 1;82(9):1153-62.;