

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

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**Mouse Monoclonal Antibody to IL1R1 - Product Information**

Application	<b>E, WB, FC</b>
Primary Accession	<a href="#">P14778</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG1</b>
Calculated MW	<b>65.4kDa KDa</b>

**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

**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:<a href="http://www.uniprot.org/citations/2950091" target="\_blank">2950091</a>, PubMed:<a href="http://www.uniprot.org/citations/37315560" target="\_blank">37315560</a>). 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:<a href="http://www.uniprot.org/citations/10653850" target="\_blank">10653850</a>).

### Cellular Location

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

### Tissue Location

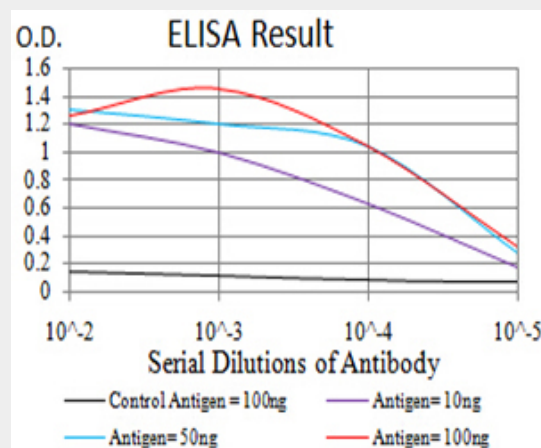
Expressed in T-helper cell subsets. Preferentially expressed in T-helper 1 (Th1) cells.

## Mouse Monoclonal Antibody to IL1R1 - Protocols

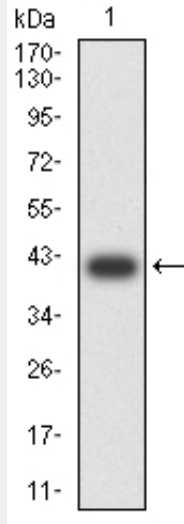
Provided below are standard protocols that you may find useful for product applications.

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

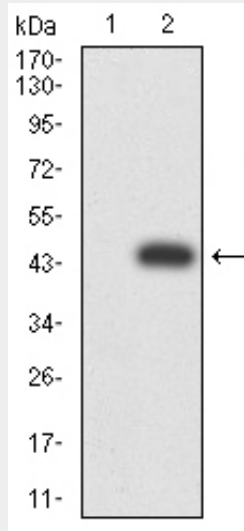
## Mouse Monoclonal Antibody to IL1R1 - Images



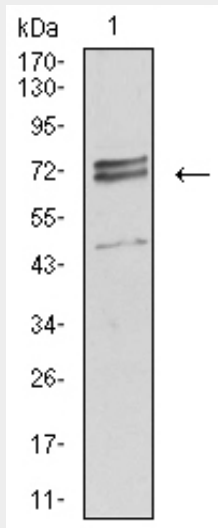
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



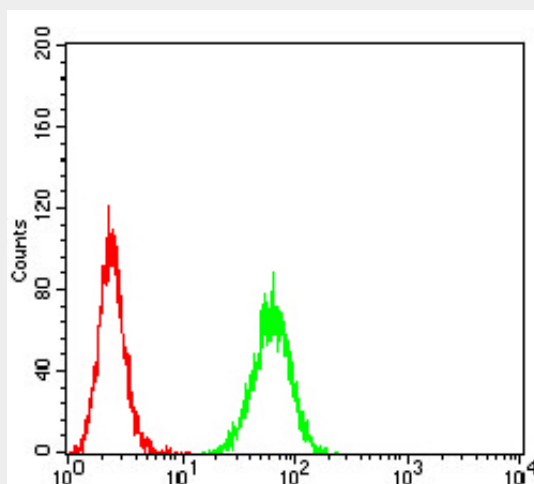
Western blot analysis using IL1R1 mAb against human IL1R1 (AA: 18-167) recombinant protein. (Expected MW is 40.8 kDa)



Western blot analysis using IL1R1 mAb against HEK293 (1) and IL1R1 (AA: 18-167)-hIgGFc 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.;