10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to IL1R1

Purified Mouse Monoclonal Antibody
Catalog # AO2439a

Product Information

Application	WB, FC, E
Primary Accession	P14778
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4D2D12
Isotype	Mouse IgG1
Calculated MW	65402
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

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.

Protein Information

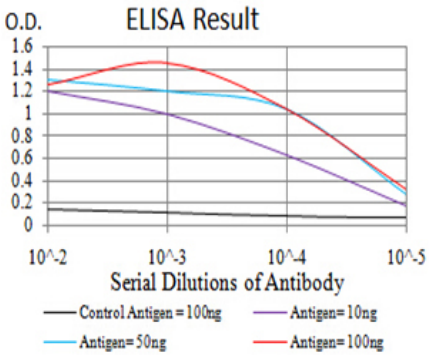
Name	IL1R1

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.

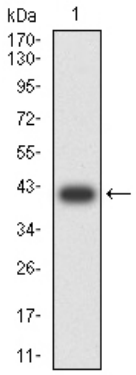
References

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

Images

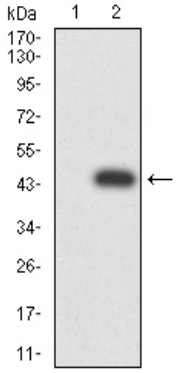


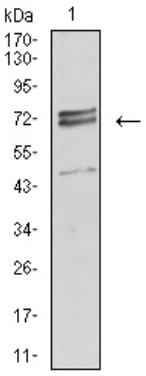
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



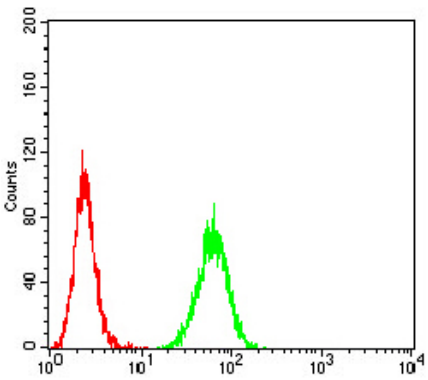
Western blot analysis using IL1R1 mAb against human IL1R1 (AA: 18-167) recombinant protein. (Expected MW is 40.8 kDa)

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.