Interleukin-1 Receptor (IL1R1) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Interleukin-1 receptor (IL1R1), Monoclonal Antibody
Full Product Name	Interleukin-1 Receptor Monoclonal Antibody
Product Gene Name	anti-IL1R1 antibody
Product Synonym Names	Anti-Interleukin-1 receptor; Interleukin-1, Receptor
Clonality	Monoclonal
Isotype	IgG2a
Host	Mouse
Form/Format	200 ug Protein G-purified antibody in PBS, pH 7.4
Specificity	Anti-Interleukin-1 receptor [Murine MAbs recognize human IL-1 receptor; no effect on IL-1 binding.] These antibodies react with cell surface and soluble human IL-1 receptor; Specific epitopes are unknown, but they do partially inhibit (30-50%) binding of one another to IL-1 receptor. They do not block binding of IL-1 to receptor, and they do not cross-react with receptors for human IL-2 or IL-4.
Preparation and Storage	These antibodies are stable for at least one (1) year at -20 degree C to -70 degree C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles
Molecular Weight	65,402 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (102770402..102796334). Location: 2q12
OMIM	147810
3D Structure	ModBase 3D Structure for P14778
Antigen	The extracellular domain of the type I human IL-1 receptor
Stabilizer	None
Preservatives	None. Available on request
Dilutions Instructions	Dilute in PBS or medium which is identical to that used in the assay system.
Product Categories/Family for anti-IL1R1 antibody	Hormone and Serum Protein Antibodies
Applications Tested/Suitable for anti-IL1R1 antibody	ELISA, Radioimmunoassay, Immunohistochemistry
Application Notes for anti-IL1R1 antibody	ELISA: Can be used as capture reagents or second antibody at a concentration of 5 ug/ml. RIA: Concentrations of 20-30 ng/ml of these antibodies will bind radiolabeled IL-1 receptor in a radioimmunoassay format. Immunohistochemistry: IL-1 receptor can be detected on cultured cells using antibody concentrations of 10-100 ug/ml.
Related Product Information for anti-IL1R1 antibody	MBS190298 is an antibody targeting IL1R1. Also known as Interleukin-1 Receptor Monoclonal Antibody. Host: Mouse.
Other Notes	Small volumes of anti-IL1R1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL1R1. It may not necessarily be applicable to this product.

NCBI GI #	307046
NCBI GeneID	3554
UniProt Primary Accession #	P14778
UniProt Secondary Accession #	Q587I7
UniProt Related Accession #	P14778; Q6NWP5; Q6NWP6
NCBI Official Full Name	interleukin 1 receptor
NCBI Official Synonym Full Names	interleukin 1 receptor, type I
NCBI Official Symbol	IL1R1
NCBI Official Synonym Symbols	P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha
UniProt Protein Name	Interleukin-1 receptor type 1
UniProt Synonym Protein Names	CD121 antigen-like family member A; Interleukin-1 receptor alpha; IL-1R-alpha; Interleukin-1 receptor type I; p80
Protein Family	Interleukin-1 receptor
UniProt Gene Name	IL1R1
UniProt Synonym Gene Names	IL1R; IL1RA; IL1RT1
UniProt Entry Name	IL1R1_HUMAN
NCBI Protein Information	interleukin-1 receptor type 1; IL-1R-1; IL-1RT1; IL-1RT-1; antigen CD121a; OTTHUMP00000161344; OTTHUMP00000203887; OTTHUMP00000203888; OTTHUMP00000203889; OTTHUMP00000203891; OTTHUMP00000207977; interleukin receptor 1; interleukin-1 receptor alpha; interleukin-1 receptor type I; CD121 antigen-like family member A; interleukin 1 receptor alpha, type I
NCBI Summary for IL1R1	The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein is a receptor for interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I(IL1R1/IL1RA). It is an important mediator involved in many cytokine induced immune and inflammatory responses. This gene along with interleukin 1 receptor, type II (IL1R2), interleukin 1 receptor-like 2 (IL1RL2), and interleukin 1 receptor-like 1 (IL1RL1) form a cytokine receptor gene cluster in a region mapped to chromosome 2q12. [provided by RefSeq]
UniProt Comments for IL1R1	IL-1RA: Receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the corecptor 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. Belongs to the interleukin-1 receptor family. Protein type: EC 2.7.11.25; Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 2q12 Cellular Component: cell surface; membrane; integral to plasma membrane; plasma membrane; extracellular region Molecular Function: interleukin-1, Type I, activating receptor activity; protein binding; signal transducer activity; transmembrane receptor activity; protease binding; platelet-derived growth factor receptor binding; interleukin-1 receptor activity Biological Process: cell surface receptor linked signal transduction; regulation of inflammatory response; immune response
Research Articles on IL1R1	**1.** Interleukin-1 receptor-mediated inflammation impairs the heat shock response of human mesothelial cells

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