IL1R1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IL1R1, Polyclonal Antibody
Full Product Name	Anti-IL1R1 Antibody, Rabbit Polyclonal
Product Gene Name	anti-IL1R1 antibody
Product Synonym Names	IL1R1/IL-1R1/IL-1 RI Antibody, Rabbit PAb, Antigen Affinity Purified; interleukin 1 receptor, type I; Anti-CD121A Antibody; Anti-D2S1473 Antibody; Anti-IL-1 RI Antibody; Anti-IL-1R-alpha Antibody; Anti-IL-1R1 Antibody; Anti-IL1R Antibody; Anti-IL1RA Antibody; Anti-P80 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human IL1R1/IL-1R1/IL-1 RI
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	80kDa
Chromosome Location	Chromosome: 2; NC_000002.11 (102686836..102796334). Location: 2q12
OMIM	147810
3D Structure	ModBase 3D Structure for P14778
Immunogen	Recombinant Human IL1R1/IL-1R1/IL-1 RI Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human IL1R1/IL-1R1/IL-1 RI (rh IL1R1/IL-1R1/IL-1 RI). IL1R1/IL-1R1/IL-1 RI specific IgG was purified by Human IL1R1/IL-1R1/IL-1 RI affinity chromatography.
Product Categories/Family for anti-IL1R1 antibody	Neuroinflammation; IL1 signaling pathway
Applications Tested/Suitable for anti-IL1R1 antibody	ELISA (EIA)
Application Notes for anti-IL1R1 antibody	ELISA: 1:5000-1:10,000

Related Product Information for anti-IL1R1 antibody	Interleukin 1 receptor, type I (IL-1R1) also known as CD121a (Cluster of Differentiation 121a), is an interleukin receptor. IL-1R1/CD121a 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). IL-1R1/CD121a is an important mediator involved in many cytokines induced immune and inflammatory responses. This protein has been characterized by pharmacological and molecular techniques in the mouse brain. The spindle-shaped astrocytes enclose the wound, separating the healthy from damaged neural tissue. The shape change and subsequent repair processes are IL-1beta activity-dependent, acting through the IL-1 type 1 receptor (IL-1R1), as co-application of the IL-1type 1 receptor antagonist protein (IL-1ra) blocks IL-1beta induced effects. In the spleen, a slight increase in IL-1R ACP and IL-1R1 was observed during the first hours following LPS stimulation. In conclusion, IL-1R AcP mRNA is expressed in the brain and in other tissues where IL-1R1/CD121a transcripts are found. However, the regulation of its expression is distinct from IL-1R1/CD121a. The high level of expression and the lack of regulation of IL-1R AcP transcripts in the brain under inflammatory conditions suggest that the protein might be constitutively expressed in excess.
Product References and Citations for anti-IL1R1 antibody	Dale M, et al. (1999). "Interleukin-1 receptor cluster: gene organization of IL1R2, IL1R1, IL1RL2 (IL-1Rrp2), IL1RL1 (T1/ST2), and IL18R1 (IL-1Rrp) on human chromosome 2q.". Genomics 57 (1): 177-9.Joos L, et al. (2001). "Association of IL-1beta and IL-1 receptor antagonist haplotypes with rate of decline in lung function in smokers.". Thorax 56 (11): 863-6.Vigers GP, et al. (1997). "Crystal structure of the type-I interleukin-1 receptor complexed with interleukin-1beta.". Nature 386 (6621): 190-4.
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.
Searchable Terms for IL1R1 purchase	MBS8101141 is an antibody targeting IL1R1. Also known as Anti-IL1R1 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4504659
NCBI GeneID	3554
NCBI Accession #	NP_000868.1
UniProt Primary Accession #	P14778
UniProt Secondary Accession #	Q587I7
UniProt Related Accession #	P14778
GenBank Nucleotide #	NM_000877.2
NCBI Official Full Name	interleukin-1 receptor type 1
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; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mIL-1R1; mIL-1RI; sIL-1R1; sIL-1RI
UniProt Entry Name	IL1R1_HUMAN
NCBI Protein Information	interleukin-1 receptor type 1; IL-1R-1; IL-1RT1; IL-1RT-1; antigen CD121a; interleukin receptor 1; interleukin-1 receptor alpha; interleukin-1 receptor type I; CD121 antigen-like family member A; interleukin 1 receptor alpha, type I

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
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