Interleukin-1ra (IL1RA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Interleukin-1Ra (IL1RA), Polyclonal Antibody
Full Product Name	Interleukin-1Ra (Interleukin-1 Receptor Antagonist, IL-RA, IL1F3, IL1RA) (FITC)
Product Gene Name	anti-IL1RA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by affinity chromatography from whole serum.
Specificity	Recognizes human Interleukin-1Ra.
Preparation and Storage	Lyophilized powder may be stored at -20 degree C. Stable for 12 months after receipt at -20 degree C. Reconstitute with sterile ddH2O. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Reconstituted product is stable for 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	20,055 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (113875470..113891593). Location: 2q14.2
OMIM	147679
3D Structure	ModBase 3D Structure for P18510
Immunogen	Recombinant protein corresponding to human Interleukin-1Ra.
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-IL1RA antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-IL1RA antibody	Functional Assay, ELISA (EIA), Western Blot (WB)
Application Notes for anti-IL1RA antibody	Functional Assay: 2.5-3.7ug/ml ELISA: 0.5-2ug/ml WB: 0.1-0.2ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-IL1RA antibody	MBS6444285 is an antibody targeting IL1RA. Also known as Interleukin-1Ra (Interleukin-1 Receptor Antagonist, IL-RA, IL1F3, IL1RA) (FITC). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-IL1RA 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 IL1RA. It may not necessarily be applicable to this product.

NCBI GI #	27894321
NCBI GeneID	3557
NCBI Accession #	NP_776215.1
UniProt Primary Accession #	P18510
UniProt Secondary Accession #	Q14628; Q53SC2; Q7RTZ4; Q96GD6; Q9UPC0; A8K4G1
UniProt Related Accession #	P18510
GenBank Nucleotide #	NM_173843.2
NCBI Official Full Name	interleukin-1 receptor antagonist protein isoform 4
NCBI Official Synonym Full Names	interleukin 1 receptor antagonist
NCBI Official Symbol	IL1RN
NCBI Official Synonym Symbols	DIRA; IRAP; IL1F3; IL1RA; MVCD4; IL-1RN; IL-1ra; IL-1ra3; ICIL-1RA
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Synonym Protein Names	ICIL-1RA; IL1 inhibitor
UniProt Gene Name	IL1RN
UniProt Synonym Gene Names	IL1F3; IL1RA; IL-1RN; IL-1ra; IRAP
UniProt Entry Name	IL1RA_HUMAN
NCBI Protein Information	interleukin-1 receptor antagonist protein; IL1 inhibitor; IL1RN (IL1F3); type II interleukin-1 receptor antagonist; intracellular IL-1 receptor antagonist type II; intracellular interleukin-1 receptor antagonist (icIL-1ra)
NCBI Summary for IL1RA	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for IL1RA	IL1RN: Inhibits the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling. Has no interleukin-1 like activity. Binds functional interleukin-1 receptor IL1R1 with greater affinity than decoy receptor IL1R2; however, the physiological relevance of the latter association is unsure. The intracellular form of IL1RN is predominantly expressed in epithelial cells. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Cytokine; Secreted; Secreted, signal peptide; Vesicle Chromosomal Location of Human Ortholog: 2q14.2 Cellular Component: extracellular space; cytoplasm; plasma membrane; intracellular Molecular Function: interleukin-1 Type I receptor antagonist activity; interleukin-1 receptor binding; interleukin-1 Type II receptor antagonist activity; interleukin-1, Type II receptor binding; cytokine activity; interleukin-1, Type I receptor binding; interleukin-1 receptor antagonist activity Biological Process: response to drug; positive regulation of JNK activity; negative regulation of glutamate secretion; negative regulation of heterotypic cell-cell adhesion; response to glucocorticoid stimulus; carboxylic acid metabolic process; response to lipopolysaccharide; female pregnancy; sensory perception of pain; fever; chronic inflammatory response to antigenic stimulus; memory; response to starvation; insulin secretion; acute-phase response; negative regulation of cytokine and chemokine mediated signaling pathway; immune response; response to activity; lipid metabolic process; negative regulation of membrane potential; negative regulation of cell migration; negative regulation of apoptosis Disease: Microvascular Complications Of Diabetes, Susceptibility To, 4; Gastric Cancer, Hereditary Diffuse; Osteomyelitis, Sterile Multifocal, With Periostitis And Pustulosis

Research Articles on IL1RA	**1.** Rheumatic heart disease patients and ethnically matched controls were screened for TNF-alpha(-308)G/A, IL-10(-1082) G/A, IL-6(-174) G/C and a variable number of tandem repeats (VNTRs) polymorphism of the IL-1Ra gene.
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