

Mouse anti-Human IL1RA Monoclonal Antibody | anti-IL1RN antibody

Anti-IL1RA Antibody, Mouse Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254516	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

IL1RA; Monoclonal Antibody; Anti-IL1RA Antibody; Mouse Monoclonal; IL-1RA/IL1RN Antibody; Mouse MAb; interleukin 1 receptor antagonist; Anti-DIRA Antibody; Anti-ICIL-1RA Antibody; Anti-IL-1ra Antibody; Anti-IL-1ra3 Antibody; Anti-IL-1RN Antibody; Anti-IL1F3 Antibody; Anti-IRAP Antibody; Anti-MVCD4 Antibody; anti-IL1RN antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	02
Specificity	Human IL-1RA
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-IL1RN antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant Human IL-1RA protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human IL-1RA (rh IL-1RA). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human IL1RA expression on A431 cells. Cells were stained with purified anti-Human IL1RA, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Human IL1Ra in Hela cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human IL1Ra monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-IL1RN antibody	Interleukin-1 receptor antagonist (IL-1RA) also known as IL1RN 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. A polymorphism of this protein-encoding gene is reported to be associated with an increased risk of osteoporotic fractures and gastric cancer. IL-1RA/IL1RN may inhibit the activity of IL-1 by binding to its receptor and it has no IL-1 like activity. Genetic variation in IL-1RA/IL1RN is associated with susceptibility to microvascular complications of diabetes type 4 (MVCD4). These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Defects in IL-1RA/IL1RN are the cause of interleukin 1 receptor antagonist deficiency (DIRA) which is also known as deficiency of interleukin 1 receptor antagonist. Autoinflammatory diseases manifest inflammation without evidence of infection, high-titer autoantibodies, or autoreactive T-cells. DIRA is a rare, autosomal recessive, genetic autoinflammatory disease that results in sterile multifocal osteomyelitis, and pustulosis from birth.
Product Categories/Family for anti-IL1RN antibody	Neuroinflammation; IL1 signaling pathway
References	Langdahl BL, et al. (2000) Osteoporotic fractures are associated with an 86-base pair repeat polymorphism in the interleukin-1--receptor antagonist gene but not with polymorphisms in the interleukin-1beta gene. J Bone Miner. 15 (3): 402-14.El-Omar EM, et al. (2000) Interleukin-1 polymorphisms associated with increased risk of gastric cancer. Nature. 404 (6776): 398-402.Steinkasserer A, et al. (1992) The human IL-1 receptor antagonist gene (IL1RN) maps to chromosome 2q14-q21, in the region of the IL-1 alpha and IL-1 beta loci. Genomics. 13 (3): 654-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27894319
NCBI GeneID	3557
NCBI Accession #	NP_776214.1
NCBI GenBank Nucleotide #	NM_173842.2
UniProt Accession #	P18510; Q14628; Q53SC2; Q7RTZ4; Q96GD6; Q9UPC0; A8K4G1
Molecular Weight	20,055 Da
NCBI Official Full Name	interleukin-1 receptor antagonist protein isoform 1
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
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)
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Gene Name	IL1RN
UniProt Synonym Gene Names	IL1F3; IL1RA; IL-1RN; IL-1ra; IRAP
UniProt Entry Name	IL1RA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/il1ra-antibody-clone-02-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/254516>