Soluble Interleukin-1 Receptor Ielisa (IL-1SR I) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Soluble Interleukin-1 Receptor Ielisa (IL-1SR I), ELISA Kit
Full Product Name	Goat Soluble Interleukin-1 Receptor Ielisa ELISA Kit
Product Gene Name	IL-1SR I elisa kit
Species Reactivity	Goat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	65,418 Da
OMIM	602626
3D Structure	ModBase 3D Structure for Q9NPH3
Related Product Information for IL-1SR I elisa kit	MBS042507 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Soluble Interleukin-1 Receptor Ielisa (IL-1SR I) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IL-1SR I. The ELISA analytical biochemical technique of the MBS042507 kit is based on IL-1SR I antibody-IL-1SR I antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL-1SR I antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL-1SR I. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of IL-1SR I elisa kit 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 IL-1SR I. It may not necessarily be applicable to this product.

NCBI GI #	8050499
NCBI GeneID	3556
NCBI Accession #	AAF71688.1
UniProt Primary Accession #	Q9NPH3
UniProt Secondary Accession #	O14915; Q86WJ7; B1NLD0; D3DNW0
UniProt Related Accession #	Q9NPH3
NCBI Official Full Name	soluble interleukin 1 receptor accessory protein
NCBI Official Synonym Full Names	interleukin 1 receptor accessory protein
NCBI Official Symbol	IL1RAP
NCBI Official Synonym Symbols	IL1R3; C3orf13; IL-1RAcP
UniProt Protein Name	Interleukin-1 receptor accessory protein
UniProt Synonym Protein Names	Interleukin-1 receptor 3
UniProt Gene Name	IL1RAP

UniProt Synonym Gene Names	C3orf13; IL1R3; IL-1 receptor accessory protein; IL-1RAcP; IL-1R-3; IL-1R3
UniProt Entry Name	IL1AP_HUMAN
NCBI Protein Information	interleukin-1 receptor accessory protein; IL-1R3; interleukin-1 receptor 3; IL-1 receptor accessory protein; interleukin-1 receptor accessory protein beta
NCBI Summary for IL-1SR I	Interleukin 1 induces synthesis of acute phase and proinflammatory proteins during infection, tissue damage, or stress, by forming a complex at the cell membrane with an interleukin 1 receptor and an accessory protein. This gene encodes the interleukin 1 receptor accessory protein. The protein is a necessary part of the interleukin 1 receptor complex which initiates signalling events that result in the activation of interleukin 1-responsive genes. Alternative splicing of this gene results in two transcript variants encoding two different isoforms, one membrane-bound and one soluble. The ratio of soluble to membrane-bound forms increases during acute-phase induction or stress. [provided by RefSeq, Nov 2009]
UniProt Comments for IL-1SR I	IL1RAP: Coreceptor with IL1R1. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B 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. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Secreted forms (isoforms 2 and 3) associate with secreted ligand-bound IL1R2 and increase the affinity of secreted IL1R2 for IL1B; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors. Belongs to the interleukin-1 receptor family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 3q28 Cellular Component: membrane; integral to plasma membrane; extracellular region; plasma membrane Molecular Function: signal transducer activity; interleukin-1 receptor activity Biological Process: interleukin-2 biosynthetic process; cytokine and chemokine mediated signaling pathway; innate immune response; protein complex assembly; immune response; inflammatory response
Research Articles on IL-1SR I	**1.** Combined crystallography and small-angle X-ray-scattering studies reveal that ST2 possesses hinge flexibility between the D3 domain and D1D2 module, whereas IL-1RAcP exhibits a rigid conformation in the unbound state in solution.
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