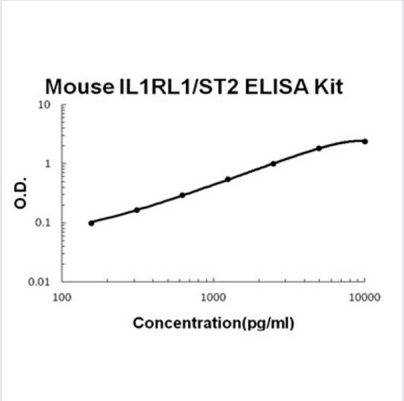
IL1RL1/ST2 (IL1RL1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	IL1RL1/ST2, ELISA Kit
Full Product Name	Mouse IL1RL1/ST2 PicoKine ELISA Kit
Product Gene Name	IL1RL1 elisa kit
Product Synonym Names	Interleukin-1 receptor-like 1; interleukin 1 receptor-like 1; DER-4; DER4; FIT 1; Growth stimulation expressed; homolog of mouse growth stimulation-expressed; Il1rl1; IL33R; ILRL1_HUMAN; Interleukin 1 receptor like 1; interleukin 1 receptor related protein; Interleukin-1 receptor-like 1; Ly84; Lymphocyte antigen 84; Protein ST2; ST2; ST2L; ST2V; Ste2; Suppressor of tumorigenicity 2; T1; T1 protein
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Specificity	Natural and recombinant mouse IL1RL1
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Molecular Weight	38,502 Da
3D Structure	ModBase 3D Structure for P14719
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for IL1RL1 elisa kit	**Principle of the assay:** mouse IL1RL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for IL1RL1 has been precoated onto 96-well plates. Standards(NSO, S27-R332) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL1RL1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse IL1RL1 amount of sample captured in plate. **Background:** Interleukin 1 receptor-like 1, also known as IL1RL1 or ST2, is a protein that in humans is encoded by the IL1RL1 gene. The protein encoded by this gene is a member of the interleukin 1 receptor family. Studies of the similar gene in mouse suggested that this receptor can be induced by proinflammatory stimuli, and may be involved in the function of helper T cells. TL1RL1 is necessary for endotoxin tolerance and, by inhibiting TLR responses, enhances Th2 responses. This gene, interleukin 1 receptor, type I (IL1R1), interleukin 1 receptor, type II (IL1R2) and interleukin 1 receptor-like 2 (IL1RL2) form a cytokine receptor gene cluster in a region mapped to chromosome 2q12.
Other Notes	Small volumes of IL1RL1 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.

Searchable Terms for IL1RL1 purchase	MBS177159 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IL1RL1/ST2, 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 IL1RL1. The ELISA analytical biochemical technique of the MBS177159 kit is based on IL1RL1 antibody-IL1RL1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IL1RL1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IL1RL1. 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(%).



Typical Testing Data/Standard Curve (for reference only) of IL1RL1 elisa kit
Mouse IL1RL1/ST2 PicoKine ELISA Kit standard curve

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL1RL1. It may not necessarily be applicable to this product.

NCBI GI #	26454633
NCBI GeneID	17082
NCBI Accession #	P14719.2
UniProt Primary Accession #	P14719
UniProt Secondary Accession #	Q05208
UniProt Related Accession #	P14719
NCBI Official Full Name	Interleukin-1 receptor-like 1
NCBI Official Synonym Full Names	interleukin 1 receptor-like 1
NCBI Official Symbol	Il1rl1
NCBI Official Synonym Symbols	T1; St2; DER4; Ly84; ST2L; Fit-1; T1/ST2; St2-rs1
UniProt Protein Name	Interleukin-1 receptor-like 1
UniProt Synonym Protein Names	Lymphocyte antigen 84; Protein ST2; Protein T1
Protein Family	Interleukin-1 receptor
UniProt Gene Name	Il1rl1
UniProt Synonym Gene Names	Ly84; St2; Ste2
UniProt Entry Name	ILRL1_MOUSE
NCBI Protein Information	interleukin-1 receptor-like 1; lymphocyte antigen 84

UniProt Comments for IL1RL1	IL1RL1: receptor for IL33. Its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of ERK1 and/or ERK2, p38-alpha, and JNK1. Apparently promotes the activation and differentiation of T-helper 2 cells. Belongs to the interleukin-1 receptor family. Highly expressed in kidney, lung, placenta, stomach, skeletal muscle, colon and small intestine. Three isoforms of the human protein are produced by alternative splicing. Isoform A is prevalently expressed in the lung, testis, placenta, stomach and colon. Isoform B is more abundant in the brain, kidney and the liver. Isoform C is not detected in brain, heart, liver, kidney and skeletal muscle. Protein type: Receptor, cytokine; Membrane protein, integral Cellular Component: extracellular space; proteinaceous extracellular matrix; cell surface; membrane; extracellular region; integral to membrane; plasma membrane; external side of plasma membrane Molecular Function: interleukin-1 receptor activity Biological Process: negative regulation of cell proliferation; negative regulation of T-helper 1 type immune response; negative regulation of interferon-gamma production; negative regulation of I-kappaB kinase/NF-kappaB cascade; signal transduction; positive regulation of interleukin-5 production; positive regulation of inflammatory response; positive regulation of macrophage activation
Research Articles on IL1RL1	**1.** We found that IL-33 could induce and enhance the expression of IL-6 and IL-8 in PBMCs of COPD mice via p38 MAPK pathway.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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