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Mouse Anti-Interleukin-1 receptor-like 1/ST2 antibody

SLM-43005M

Product Name	Interleukin-1 receptor-like 1/ST2
Chinese Name	白细胞介素 1 受体相关蛋白单克隆抗体
Alias	DER-4; DER4; FIT 1; Growth stimulation expressed gene 2; 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.
Research Area	Cardiovascular Cell biology immunology
Immunogen Species	Mouse
Clonality	Monoclonal
React Species	Human,
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	61kDa
Cellular localization	The cell membrane Secretory protein
Form	Liquid
immunogen	Recombinant human human Interleukin-1 receptor-like 1/ST2 protein: 19-328/369
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M PBS(pH7.4)
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

ST2 is a member of a superfamily containing the Interleukin 1 (IL1) receptor and the Toll-like receptors (TLRs). The TLRs are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. ST2 was originally identified as a protein whose production was stimulated by various proliferation-inducing agents such as PDGF and FGF. More recently, it has been shown to negatively regulate IL1 receptor and Toll-like receptor 4 (TLR4) signaling and to maintain endotoxin tolerance. It has been suggested that the inhibition of TLR4 signaling occurs through the association and sequestering of TLR adaptor molecules such as MyD88 and TIRAP.

Function:
Receptor for interleukin-33 (IL-33), its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. Possibly involved in helper T-cell function.

Subunit:
Interacts with MYD88, IRAK1, IRAK4, and TRAF6.

Subcellular Location:
Isoform C: Cell membrane.
Isoform B: Secreted.
Cell membrane; Single-pass type I membrane protein.

Tissue Specificity:
Highly expressed in kidney, lung, placenta, stomach, skeletal muscle, colon and small intestine. 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.

Similarity:
Belongs to the interleukin-1 receptor family.
Contains 3 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 TIR domain.

SWISS:
Q01638

Gene ID:
9173

Database links:

Entrez Gene: 9173 Human

Entrez Gene: 17082 Mouse

Omim: 601203 Human

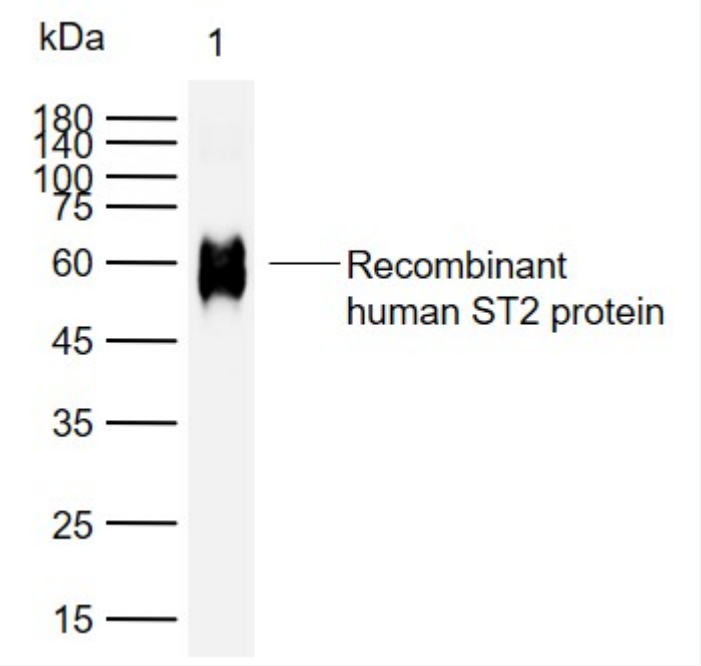
SwissProt: Q01638 Human

SwissProt: P14719 Mouse

Unigene: 66 Human

Unigene: 289824 Mouse

Product Picture



Sample:

Lane 1: Recombinant human ST2 protein, His (HEK293)

Primary: Anti-Interleukin-1 receptor-like 1/ST2 (SLM-43005M) at

1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 61 kDa

Observed band size: 61 kDa