SunLong Biotech Co.,LTD
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www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-ST2 antibody

Catalog Number: SL23758R

FOR RESEARCH USE ONLY

[DATASHEET]

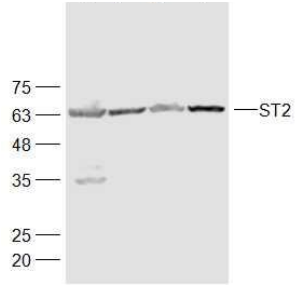
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ST2
Immunogen:	KLH conjugated synthetic peptide derived from human ST2 (isoform A,B,C): 1-100/556
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse
Predicted MW.:	61kDa
Subcellular Location:	The cell membrane Secretory protein
Background:	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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

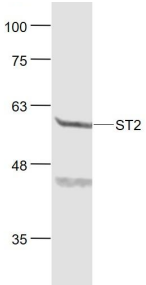
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	MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. Possibly involved in helper T-cell function. **Subunit:** Interacts with MYD88, IRAK1, IRAK4, and TRAF6. **Subcellular Location:** Isoform 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. **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

[VALIDATION IMAGES]



Sample:
293T(Human) Cell Lysate at 30 ug
A549(Human) Cell Lysate at 30 ug
A673(Human) Cell Lysate at 30 ug
MKN45(Human) Cell Lysate at 30 ug
Primary: Anti-ST2 (SL23758R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 61 kD
Observed band size: 61 kD



Sample:
Kidney (Mouse) Lysate at 40 ug
Primary: Anti- ST2 (SL23758R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 61 kD
Observed band size: 61 kD

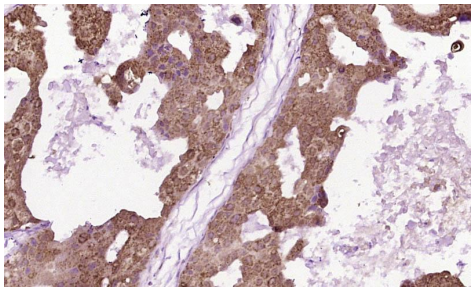
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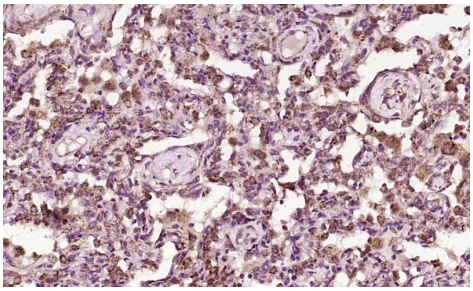
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Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ST2) Polyclonal Antibody, Unconjugated (SL23758R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ST2) Polyclonal Antibody, Unconjugated (SL23758R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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