



Rabbit Anti-ST2 antibody

SL23758R

Product Name:	ST2
Chinese Name:	白细胞介素1受体相关蛋白抗体
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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	61kDa
Cellular localization:	The cell membraneSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ST2 (isoform A,B,C):1-100/556
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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

[Olim: 601203](#)Human

[SwissProt: Q01638](#)Human

[SwissProt: P14719](#)Mouse

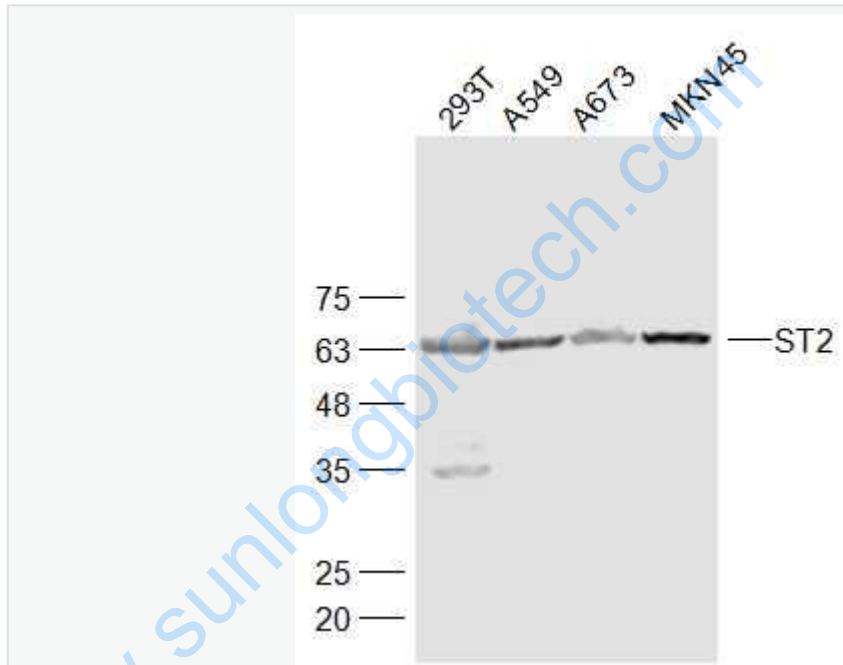
[Unigene: 66](#)Human

[Unigene: 289824](#)Mouse

Important Note:

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

Picture:



Sample:

293T(Human) Cell Lysate at 30 ug

A549(Human) Cell Lysate at 30 ug

A673(Human) Cell Lysate at 30 ug

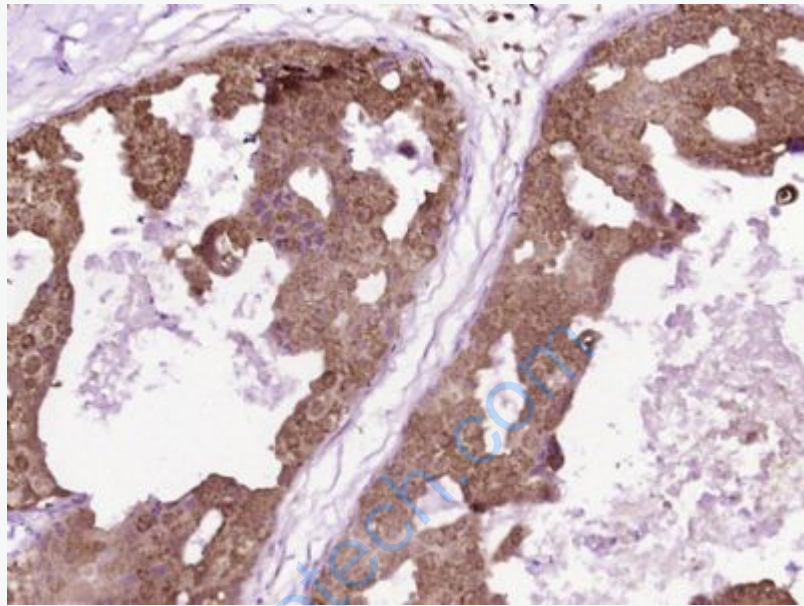
MKN45(Human) Cell Lysate at 30 ug

Primary: Anti-ST2 ? (SL23758R) at 1/1000 dilution

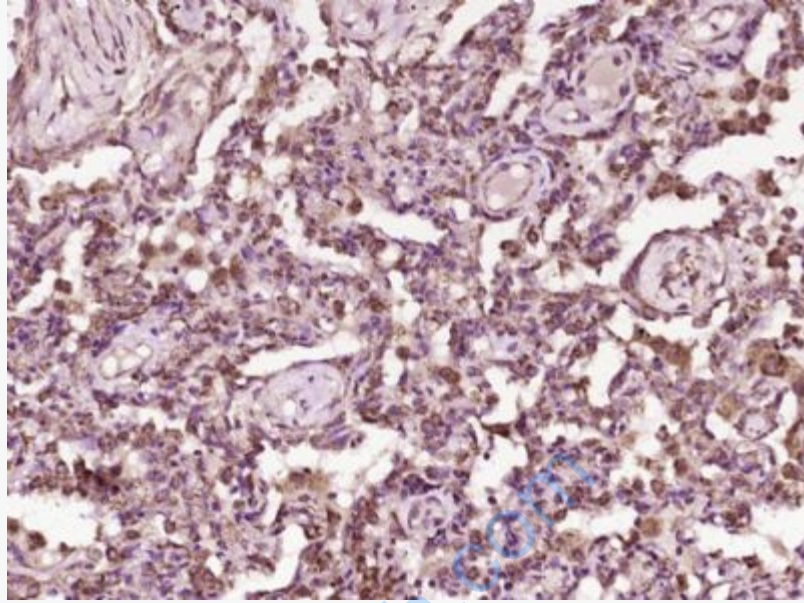
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 61 kD

Observed band size: 61 kD



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) instructions and 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) instructions and DAB staining.