



Rabbit Anti-P2X5b antibody

SL12109R

Product Name:	P2X5b
Chinese Name:	三磷酸腺苷受体P2X5b抗体
Alias:	ATP receptor; ATP receptor subunit; ionotropic ATP receptor P2X5; MGC47755; P2RX5; P2X purinoceptor 5; P2X5; P2X5R; Purinergic receptor; Purinergic receptor P2X ligand gated ion channel 5; P2RX5 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,
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:	47kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human P2X5b:261-360/422<Extracellular>
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:	The P2X receptor family is comprised of ligand-gated ion channels that allow for the increased permeability of calcium into the cell in response to extracellular ATP. The seven P2X receptors, P2X1-P2X7, form either homomeric or heteromeric channels or both. They are characterized by intracellular amino- and carboxy-termini. P2X receptors

are expressed in a wide variety of tissues, including neurons, prostate, bladder, pancreas, colon, testis and ovary. The major function of the P2X receptors is to mediate synaptic transmissions between neurons and to other tissues via the binding of extracellular ATP, which acts as a neurotransmitter. The P2X receptors may be involved in the onset of necrosis or apoptosis after prolonged exposure to high concentrations of extracellular ATP.

Function:

P2X5b belongs to the family of purinoceptors for ATP. This receptor functions as a ligand gated ion channel. Several characteristic motifs of ATP gated channels are present in its primary structure, but, unlike other members of the purinoceptors family, this receptor has only a single transmembrane domain. Three transcript variants encoding distinct isoforms have been identified for this gene.

Subunit:

Functional P2XRs are organized as homomeric and heteromeric trimers

Subcellular Location:

Membrane; Multi-pass membrane protein.

Tissue Specificity:

Expressed at high levels in brain and immune system.

Similarity:

Belongs to the P2X receptor family.

SWISS:

Q93086

Gene ID:

5026

Database links:

[Entrez Gene: 5026](#)Human

[Omim: 602836](#)Human

[SwissProt: Q8IXW4](#)Human

[SwissProt: Q93086](#)Human

[Unigene: 408615](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.



Sample: Raji Cell (Human) Lysate at 40 ug

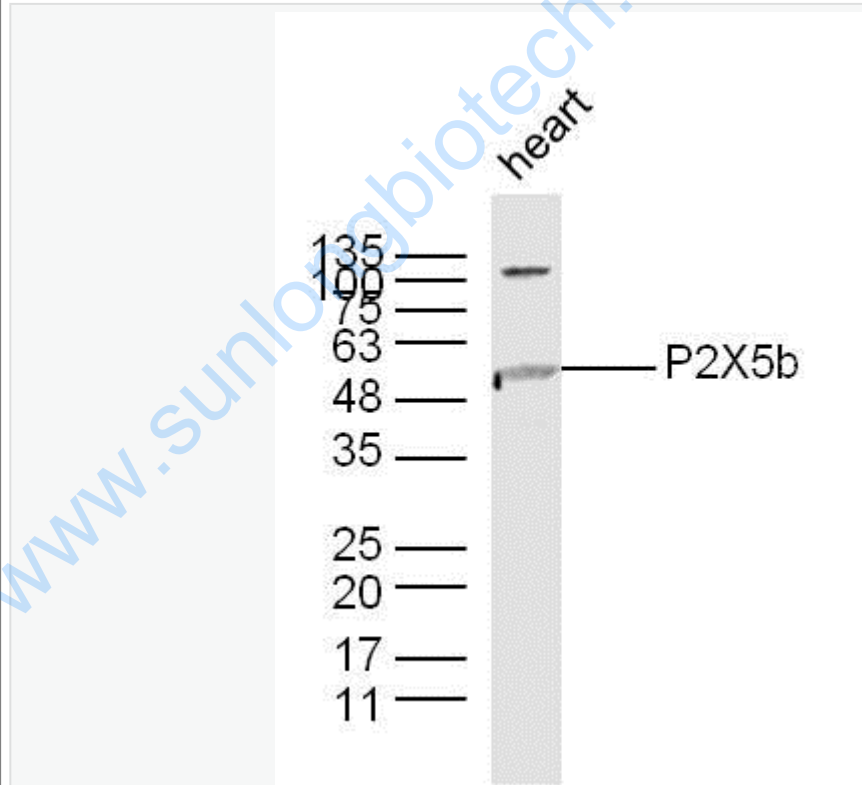
Primary: Anti-P2X5b (SL12109R) at 1/300 dilution

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

Predicted band size: 47 kD

Observed band size: 50 kD

Picture:



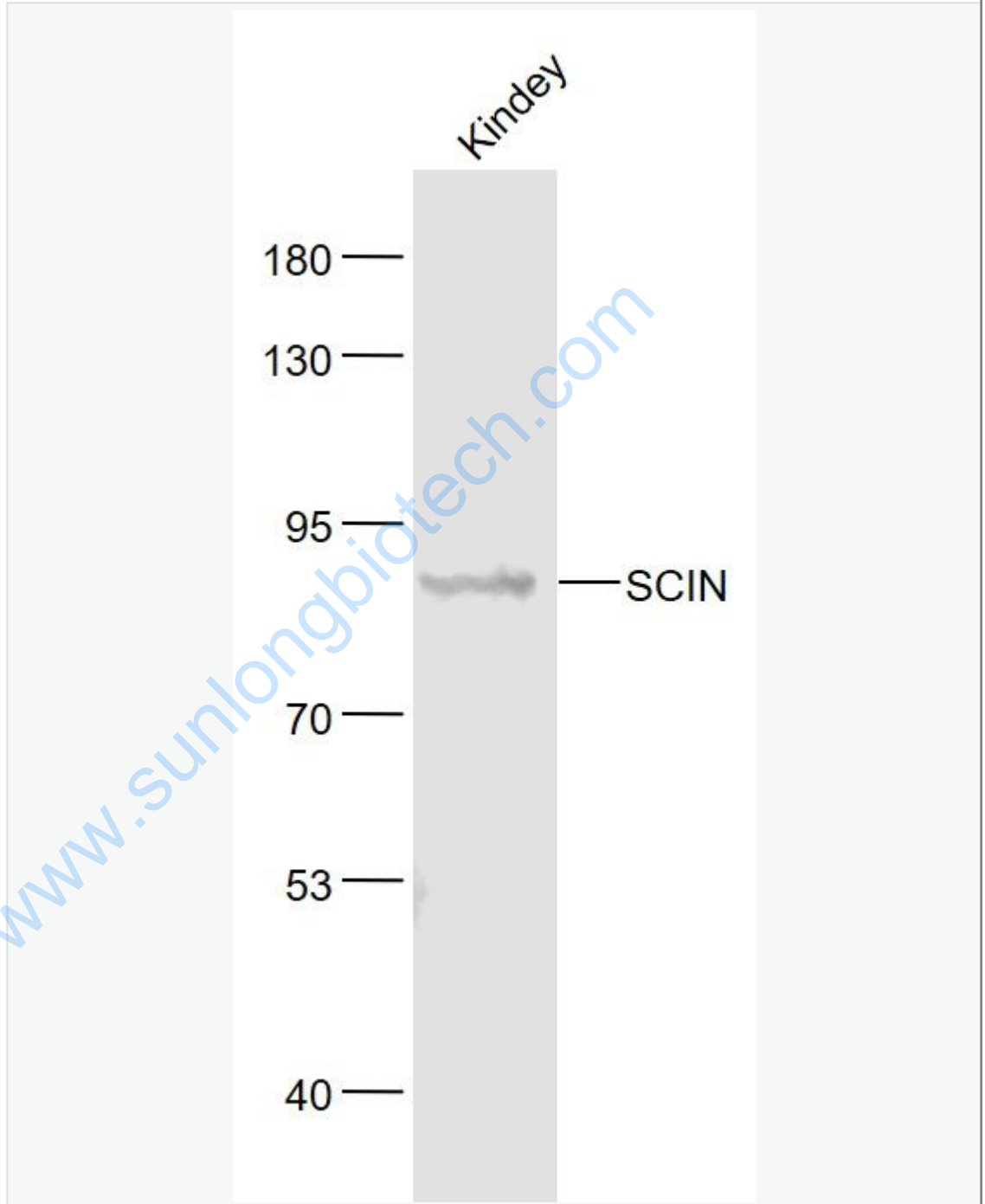
Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-P2X5b (SL12109R) at 1/300 dilution

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

Predicted band size: 47 kD

Observed band size: 50 kD



Sample:

Heart (Mouse) Lysate at 40 ug

Primary: Anti- P2X5b (SL12109R) at 1/1000 dilution

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

Predicted band size: 47kD

Observed band size: 51 kD

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