



## Rabbit Anti-SYT6 antibody

SL4175R

<b>Product Name:</b>	SYT6
<b>Chinese Name:</b>	突触蛋白6抗体
<b>Alias:</b>	Synaptotagmin 6; Synaptotagmin VI; Synaptotagmin-6; Synaptotagmin6; SynaptotagminVI; Syt 6; Syt VI; Syt6; SYT6_HUMAN; SytVI.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	57kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Synaptotagmin VI (385-430aa):381-510/510
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene belongs to the synaptotagmin family. Synaptotagmins share a common domain structure that includes a transmembrane domain and a cytoplasmic region composed of 2 C2 domains, and are involved in calcium-dependent exocytosis of synaptic vesicles. This protein has been shown to be a key component of the secretory machinery involved in acrosomal exocytosis. Alternatively spliced

transcript variants have been found for this gene. [provided by RefSeq, Dec 2011]

**Function:**

May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. May mediate Ca(2+)-regulation of exocytosis in acrosomal reaction in sperm (By similarity).

**Subunit:**

Homodimer (isoform 1). Isoform 1 forms heterodimers with SytIII, SytV and SytX. Interacts with STX1A, STX1B and STX2; the interaction is Ca(2+)-dependent. Isoform 2 is not able to form homodimer and heterodimers.

**Subcellular Location:**

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass membrane protein. Isoform 1: Membrane; Single-pass membrane protein. Note=Localized predominantly to endoplasmic reticulum (ER) and/or Golgi-like perinuclear compartment. Isoform 2: Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein.

**Similarity:**

Belongs to the synaptotagmin family.  
Contains 2 C2 domains.

**SWISS:**

Q5T7P8

**Gene ID:**

148281

**Database links:**

[Entrez Gene: 148281](#) Human

[Entrez Gene: 54524](#) Mouse

[Entrez Gene: 60565](#) Rat

[Omim: 607718](#) Human

[SwissProt: Q5T7P8](#) Human

[SwissProt: Q9R0N8](#) Mouse

[SwissProt: Q62746](#) Rat

[Unigene: 370963](#) Human

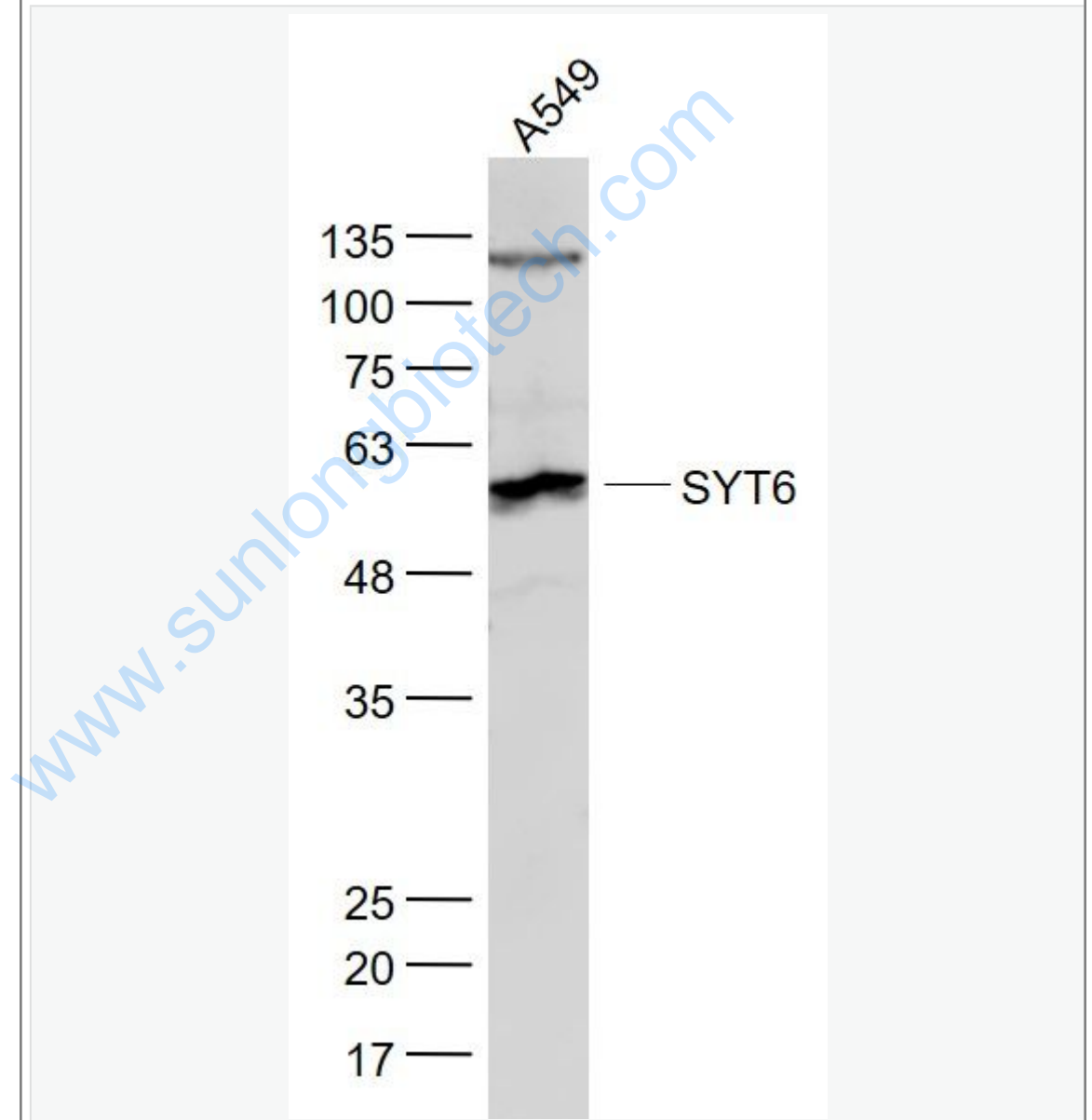
[Unigene: 88818](#) Mouse

[Unigene: 48074](#) Rat

**Important Note:**

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

Picture:



Sample:

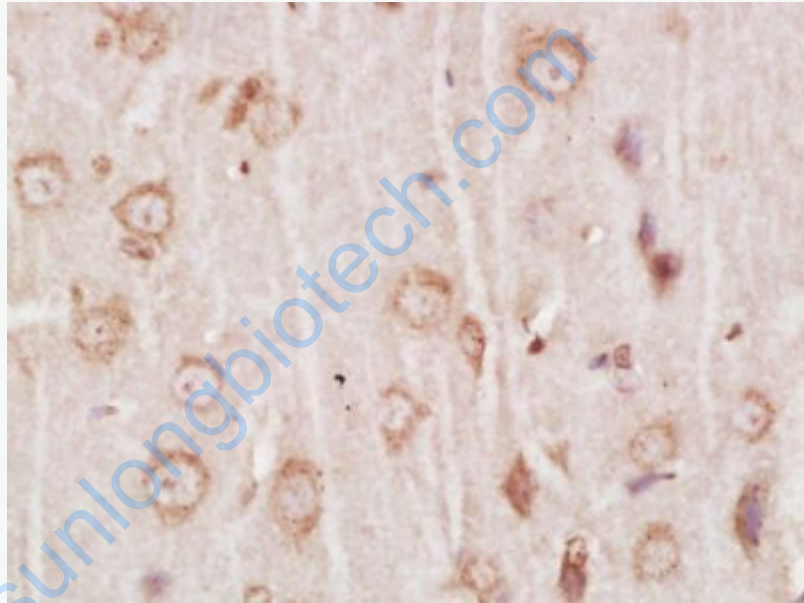
A549(Human) Cell Lysate at 30 ug

Primary: Anti- SYT6 (SL4175R) at 1/1000 dilution

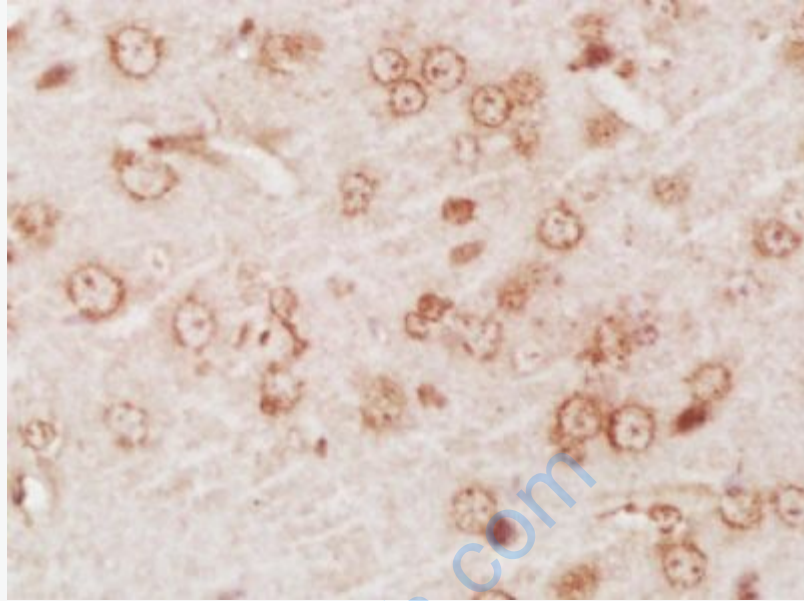
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 57 kD

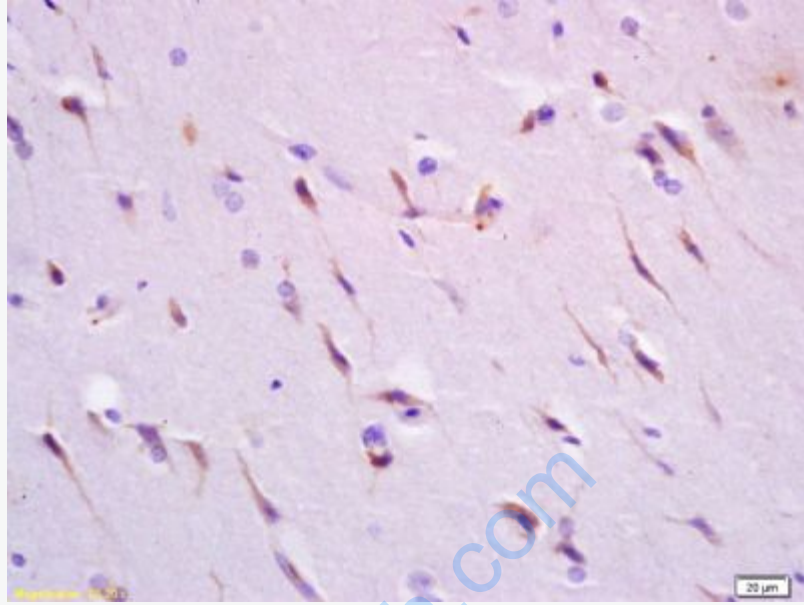
Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (SYT6) Polyclonal Antibody, Unconjugated (SL4175R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (SYT6) Polyclonal Antibody, Unconjugated (SL4175R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-SynaptotagminVI Polyclonal Antibody, Unconjugated(SL4175R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining