



Rabbit Anti-Synaptotagmin-4 antibody

SL1897R

Product Name:	Synaptotagmin-4
Chinese Name:	突触Binding protein4抗体
Alias:	SYT4_HUMAN; Syt4; SytIV; HsT1192; KIAA1342; Synaptotagmin IV; SYT4; SYT 4; Syt IV; SytIV; Synaptotagmin4; SynaptotagminIV.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Rabbit,
Applications:	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.
Molecular weight:	48kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Synaptotagmin-4:301-400/425
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 protein encoded by this gene belongs to the synaptotagmin family. Members of this family are multi-domained, integral membrane proteins of synaptic vesicles, and are thought to serve as Ca ²⁺ sensors in the process of vesicular trafficking and exocytosis. This gene is primarily expressed in the nervous tissues. [provided by RefSeq]. 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.

Subcellular Location:

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass membrane protein.

Tissue Specificity:

Expressed in brain. Within brain, expression is highest in hippocampus, with substantial levels also detected in amygdala and thalamus.

Similarity:

Belongs to the synaptotagmin family.
Contains 2 C2 domains.

SWISS:

Q9H2B2

Gene ID:

6860

Database links:

[Entrez Gene: 6860](#)Human

[Oimim: 600103](#)Human

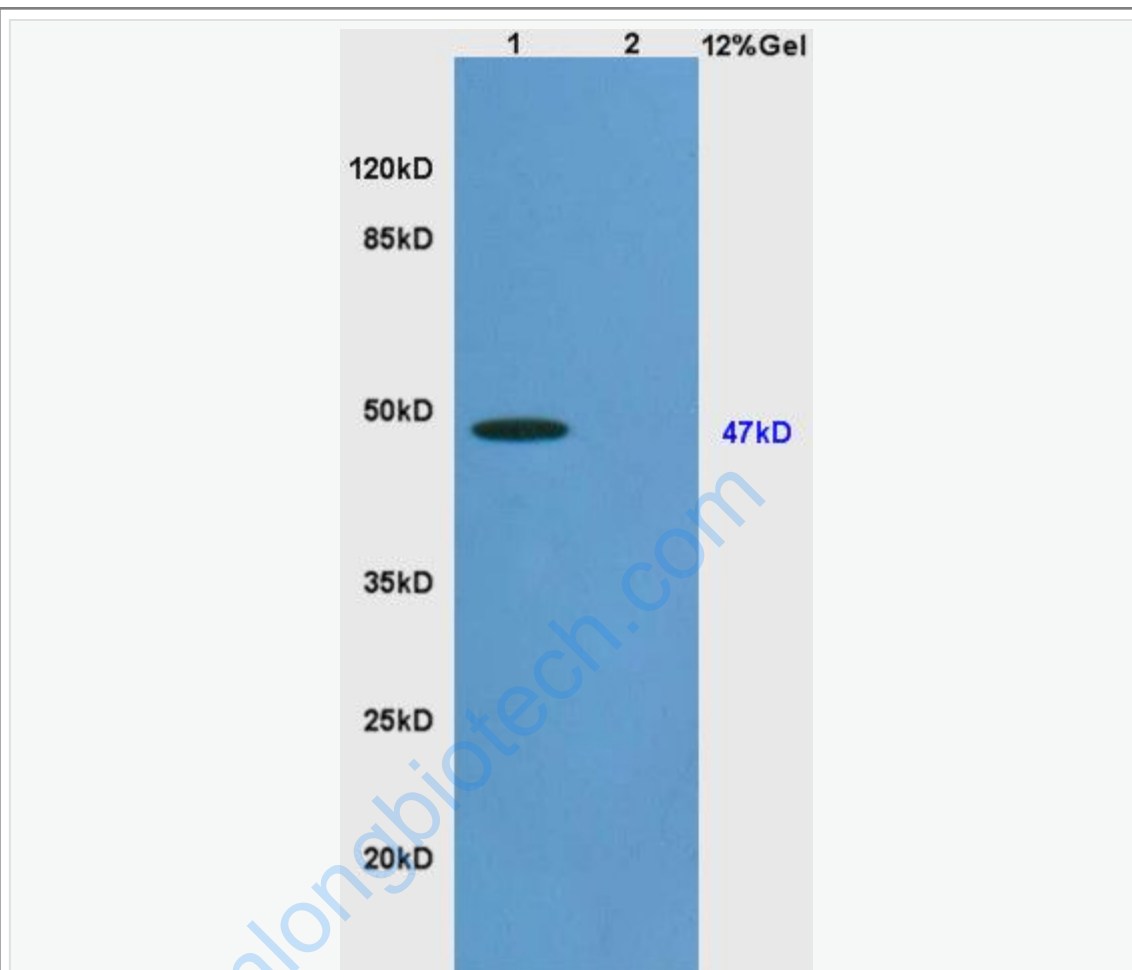
[SwissProt: Q9H2B2](#)Human

[Unigene: 8059](#)Human

Important Note:

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

Picture:



Sample:

Lane1:Brain(Mouse) Lysate at 30 ug

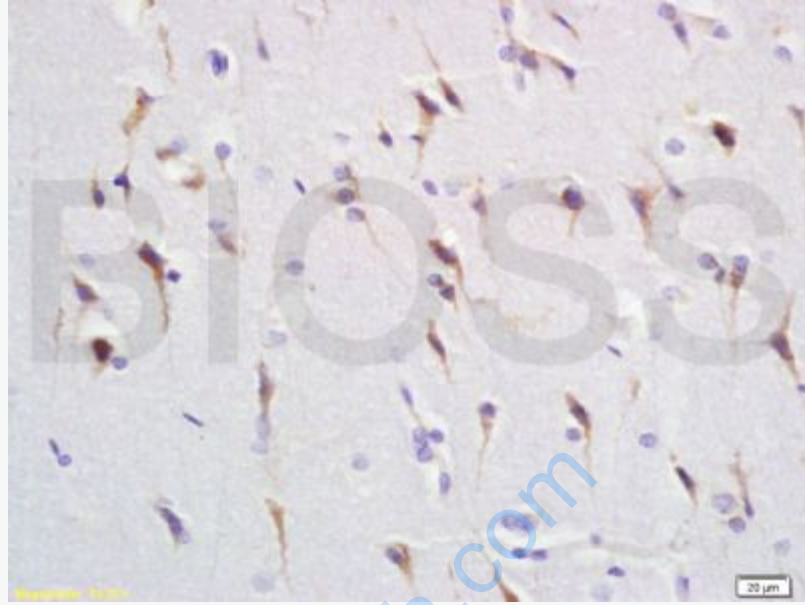
Lane2:Heart(Mouse) Lysate at 30 ug

Primary: Anti-SYNAPTOTAGMIN-4(SL1897R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL1897R) at 1:3000 dilution;

Predicted band size : 48kD

Observed band size : 47kD



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-Synaptotagmin-4 Polyclonal Antibody, Unconjugated(SL1897R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining