SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-phospho-STMN2 (Ser50)antibody

Catalog Number: SL2299R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	phospho-STMN2 (Ser50)
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human STMN2 around the phosphorylation site of Ser50: RA(p-S)GQ
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:	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:	Rat(predicted:Human,Mouse,Chicken,Dog,Horse,Rabbit)
Predicted MW.:	20kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	This gene encodes a member of the stathmin family of phosphoproteins. Stathmin proteins function in microtubule dynamics and signal transduction. The encoded protein plays a regulatory role in neuronal growth and is also thought to be involved in osteogenesis. Reductions in the expression of this gene have been associated with Down's syndrome and Alzheimer's disease. Alternatively spliced transcript variants have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 6. [provided by RefSeq, Nov 2010]. **Function:** Regulator of microtubule stability. When phosphorylated by MAPK8, stabilizes microtubules and consequently controls neurite length in cortical neurons. In the developing brain, negatively regulates the rate of exit from multipolar stage and retards radial migration from the ventricular zone.

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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	Subunit: Interacts with MAPK8. Interacts with ITM2C. **Subcellular Location:** Cytoplasm. Cytoplasm, perinuclear region. Cell projection, growth cone. Membrane; Peripheral membrane protein; Cytoplasmic side (Potential). Cell projection, axon. Golgi apparatus. Endosome. Note=Associated with punctate structures in the perinuclear cytoplasm, axons, and growth cones of developing neurons. SCG10 exists in both soluble and membrane-bound forms. **Tissue Specificity:** Neuron specific. **Post-translational modifications:** Sumoylated. Phosphorylated mostly by MAPK8, but also by MAPK9 and MAPK10 in the developing brain cortex. N-terminal palmitoylation promotes specific anchoring to the cytosolic leaflet of Golgi membranes and subsequent vesicular trafficking along dendrites and axons. Neuronal Stathmins are substrates for palmitoyltransferases ZDHHC3, ZDHHC7 and ZDHHC15. **Similarity:** Belongs to the stathmin family. **Database links:** **Entrez Gene:** 11075 Human **Entrez Gene:** 20257 Mouse **Entrez Gene:** 84510 Rat Omim: 600621 Human **SwissProt:** Q93045 Human **SwissProt:** P55821 Mouse **SwissProt:** P21818 Rat **Unigene:** 521651 Human **Unigene:** 29580 Mouse **Unigene:** 34335 Rat STMN2 neuron growth-associated protein, also known as superior cervical ganglion neuron-specific factor 10, can regulate neuronal differentiation, neurite outgrowth and Cytoskeleton composition.

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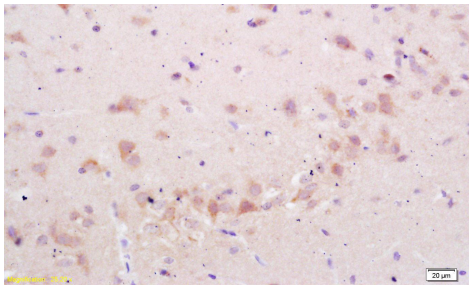
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[VALIDATION IMAGES]



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, 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℃ for 20 min;
Incubation: Anti-phospho-STMN2(Ser50) Polyclonal Antibody, Unconjugated(SL2299R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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