

Goat Anti-STMN2 / SCG10 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2044a**Specification**

Goat Anti-STMN2 / SCG10 Antibody - Product Information

Application	WB
Primary Accession	O93045
Other Accession	NP_008960 , 11075 , 20257 (mouse)
Reactivity	Human
Predicted	Mouse, Rat, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	20828

Goat Anti-STMN2 / SCG10 Antibody - Additional Information**Gene ID** 11075**Other Names**

Stathmin-2, Superior cervical ganglion-10 protein, Protein SCG10, STMN2, SCG10, SCGN10

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-STMN2 / SCG10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-STMN2 / SCG10 Antibody - Protein Information**Name** STMN2**Synonyms** SCG10, SCGN10**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 (By similarity).

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region. Cell projection, growth cone. Membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, axon. Golgi apparatus. Endosome. Cell projection, lamellipodium. 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. Colocalized with CIB1 in neurites of developing hippocampal primary neurons (By similarity). Colocalized with CIB1 in the cell body, neuritis and growth cones of neurons. Colocalized with CIB1 to the leading edge of lamellipodia.

Tissue Location

Neuron specific.

Goat Anti-STMN2 / SCG10 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-STMN2 / SCG10 Antibody - Images

AF2044a staining (1 µg/ml) of Human Brain lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-STMN2 / SCG10 Antibody - Background

Superior cervical ganglion-10 is a neuronal growth-associated protein that shares significant amino acid sequence similarity with the phosphoprotein stathmin (MIM 151442).

Goat Anti-STMN2 / SCG10 Antibody - References

Genetic risk factors for variant Creutzfeldt-Jakob disease: a genome-wide association study. Mead S, et al. Lancet Neurol, 2009 Jan. PMID 19081515.
Rnd1 regulates axon extension by enhancing the microtubule destabilizing activity of SCG10. Li YH,

et al. J Biol Chem, 2009 Jan 2. PMID 18996843.

Stathmin-like 2, a developmentally-associated neuronal marker, is expressed and modulated during osteogenesis of human mesenchymal stem cells. Chiellini C, et al. Biochem Biophys Res Commun, 2008 Sep 12. PMID 18611392.

The trans-Golgi proteins SCLIP and SCG10 interact with chromogranin A to regulate neuroendocrine secretion. Mahapatra NR, et al. Biochemistry, 2008 Jul 8. PMID 18549247.

BRI3 associates with SCG10 and attenuates NGF-induced neurite outgrowth in PC12 cells. Gong Y, et al. BMB Rep, 2008 Apr 30. PMID 18452648.