

Goat Anti-STMN1 / Stathmin 1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2043a**Specification**

Goat Anti-STMN1 / Stathmin 1 Antibody - Product Information

Application	WB, E, EIA
Primary Accession	P16949
Other Accession	NP_981946 , 3925
Reactivity	Human, Mouse
Predicted	Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	17303

Goat Anti-STMN1 / Stathmin 1 Antibody - Additional Information**Gene ID** 3925**Other Names**

Stathmin, Leukemia-associated phosphoprotein p18, Metablastin, Oncoprotein 18, Op18, Phosphoprotein p19, pp19, Prosolin, Protein Pr22, pp17, STMN1, C1orf215, LAP18, OP18

Dilution

WB~~1:1000

E~~N/A

EIA~~N/A

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-STMN1 / Stathmin 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-STMN1 / Stathmin 1 Antibody - Protein Information**Name** STMN1**Synonyms** C1orf215, LAP18, OP18

Function

Involved in the regulation of the microtubule (MT) filament system by destabilizing microtubules. Prevents assembly and promotes disassembly of microtubules. Phosphorylation at Ser-16 may be required for axon formation during neurogenesis. Involved in the control of the learned and innate fear (By similarity).

Cellular Location

Cytoplasm, cytoskeleton.

Tissue Location

Ubiquitous. Expression is strongest in fetal and adult brain, spinal cord, and cerebellum, followed by thymus, bone marrow, testis, and fetal liver. Expression is intermediate in colon, ovary, placenta, uterus, and trachea, and is readily detected at substantially lower levels in all other tissues examined. Lowest expression is found in adult liver. Present in much greater abundance in cells from patients with acute leukemia of different subtypes than in normal peripheral blood lymphocytes, non-leukemic proliferating lymphoid cells, bone marrow cells, or cells from patients with chronic lymphoid or myeloid leukemia.

Goat Anti-STMN1 / Stathmin 1 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-STMN1 / Stathmin 1 Antibody - Images

AF2043a (1 µg/ml) staining of Human Testis Lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-STMN1 / Stathmin 1 Antibody - Background

This gene belongs to the stathmin family of genes. It encodes a ubiquitous cytosolic

phosphoprotein proposed to function as an intracellular relay integrating regulatory signals of the cellular environment. The encoded protein is involved in the regulation of the microtubule filament system by destabilizing microtubules. It prevents assembly and promotes disassembly of microtubules. Multiple transcript variants encoding different isoforms have been found for this gene.

Goat Anti-STMN1 / Stathmin 1 Antibody - References

Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.

Upregulated Op18/stathmin activity causes chromosomal instability through a mechanism that evades the spindle assembly checkpoint. Holmfeldt P, et al. Exp Cell Res, 2010 Jul 15. PMID 20399773.

2,3,7,8-Tetrachlorodibenzo-p-dioxin up-regulates stathmin 1 in the eye: suggestive evidence for the involvement of stathmin 1 in accelerated eye opening in mice induced by

2,3,7,8-tetrachlorodibenzo-p-dioxin. Gin DW, et al. Toxicol Lett, 2010 Jul 1. PMID 20385220.

Up-regulated expression of stathmin may be associated with hepatocarcinogenesis. Gan L, et al. Oncol Rep, 2010 Apr. PMID 20204289.

Regulation of microtubule dynamics through phosphorylation on stathmin by Epstein-Barr virus kinase BGLF4. Chen PW, et al. J Biol Chem, 2010 Mar 26. PMID 20110360.