

STMN1 Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22150b

Specification

STMN1 Antibody (C-Term) - Product Information

Application	WB, FC,E
Primary Accession	P16949
Other Accession	Q3T0C7 , A9YWH3 , Q4R712 , Q6DUB7
Reactivity	Human, Rat
Predicted	Bovine, Monkey, Pig
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	17303

STMN1 Antibody (C-Term) - 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

Target/Specificity

This STMN1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 106-140 amino acids from human STMN1.

Dilution

WB~~1:2000
FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

STMN1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

STMN1 Antibody (C-Term) - 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

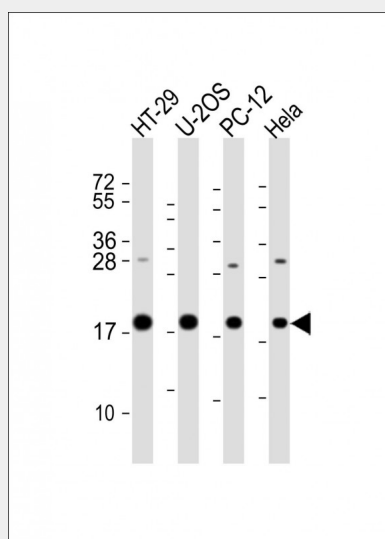
Ubiquitous. Expression is strongest in fetal and adult brain, spinal cord, and cerebellum, followed by thymus, bone marrow, testis, and fetal liver. Expression is intermediate in colon, ovary, placenta, uterus, and trachea, and is readily detected at substantially lower levels in all other tissues examined. 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.

STMN1 Antibody (C-Term) - Protocols

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

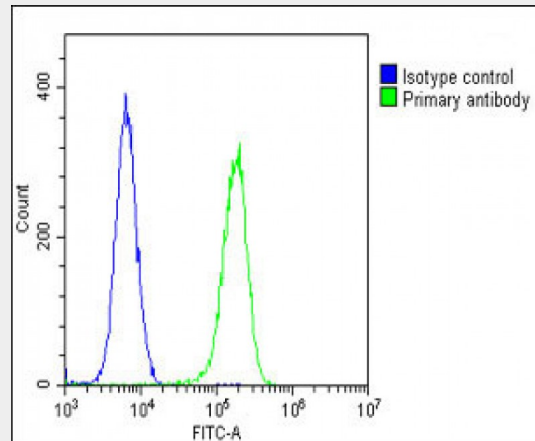
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

STMN1 Antibody (C-Term) - Images



All lanes : Anti-STMN1 Antibody (C-Term) at 1:2000 dilution Lane 1: HT-29 whole cell lysate Lane 2: U-2OS whole cell lysate Lane 3: PC-12 whole cell lysate Lane 4: HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated

at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing U-2 OS cells stained with AP22150b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22150b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

STMN1 Antibody (C-Term) - Background

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).

STMN1 Antibody (C-Term) - References

- Zhu X.-X., et al. *J. Biol. Chem.* 264:14556-14560 (1989).
- Maucuer A., et al. *FEBS Lett.* 264:275-278 (1990).
- Melhem R.F., et al. *J. Biol. Chem.* 266:17747-17753 (1991).
- Hosoya H., et al. *Cell Struct. Funct.* 21:237-243 (1996).
- Ota T., et al. *Nat. Genet.* 36:40-45 (2004).