



Stathmin (ABT206R) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18167
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	IHC
Gene Name	STMN1
Protein Name	C1orf215;Lag;LAP 18;LAP18;Leukemia associated phosphoprotein p18;Leukemia-associated phosphoprotein p18;Metablastin;Oncoprotein 18;OP 18;Op18;p18;p19;Phosphoprotein 19;Phosphoprotein p19;pp17;pp19;PR22;Pr22 protein;Prosolin;Protein Pr22;SMN;Stathmin;Stathmin1;STMN 1;Stmn1;STMN1_HUMAN
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of Stathmin 1
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	C1orf215 ; Lag ; LAP 18 ; LAP18 ; Leukemia associated phosphoprotein p18 ; Leukemia-associated phosphoprotein p18 ; Metablastin ; Oncoprotein 18 ; OP 18 ; Op18 ; p18 ; p19 ; Phosphoprotein 19 ; Phosphoprotein p19 ; pp17 ; pp19 ; PR22 ; Pr22 protein ; Prosolin ; Protein Pr22 ; SMN ; Stathmin ; Stathmin1 ; STMN 1 ; Stmn1 ; STMN1_HUMAN
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm, cytoskeleton.
Tissue Specificity	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.

Function

Disease: 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. 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. PTM: Many different phosphorylated forms are observed depending on specific combinations among the sites which can be phosphorylated. MAPK is responsible for the phosphorylation of stathmin in response to NGF. Phosphorylation at Ser-16 seems to be required for neuron polarization (By similarity). Phosphorylation at Ser-63 reduces tubulin binding 10-fold and suppresses the MT polymerization inhibition activity. similarity: Belongs to the stathmin family. subunit: Binds to two alpha/beta-tubulin heterodimers. Interacts with KIST. tissue specificity: 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.

Background

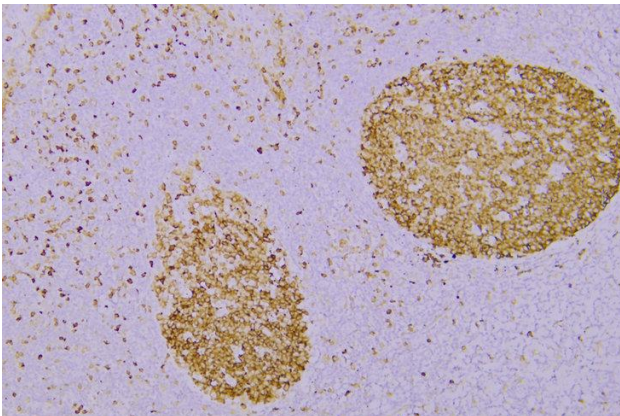
This gene belongs to the stathmin family of genes. It encodes a ubiquitous cytosolic phosphoprotein proposed to function as an intracellular relay integrating regulatory signals of the cellular environment. The encoded protein is involved in the regulation of the microtubule filament system by destabilizing microtubules. It prevents assembly and promotes disassembly of microtubules. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Immunohistochemical analysis of paraffin-embedded human Tonsil. 1, Antibody was incubated at 4° overnight. 2, TRIS-EDTA of pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min).

