

Anti-Stathmin 1 Picoband Antibody

Catalog # ABO12247

Product Information

Application	WB, IHC-P
Primary Accession	P16949
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Stathmin(STMN1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	17303
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse
Subcellular Localization	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. .
Source	Eukaryota
Protein Name	Stathmin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Stathmin 1 (2-34aa ASSDIQVKELEKRASGQAFELILSPRSKESVPE), different from the related mouse sequence by one amino acid, and identical to the related rat sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the stathmin family.

Protein Information

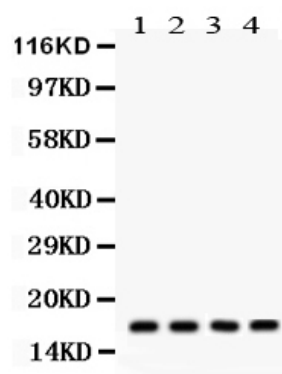
Name	STMN1
Synonyms	C1orf215, LAP18, OP18
Function	Involved in the regulation of the microtubule (MT) filament system by destabilizing microtubules. Prevents assembly and promotes disassembly of microtubules. Phosphorylation at Ser-16 may be required for axon formation during neurogenesis. Involved in 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.

Background

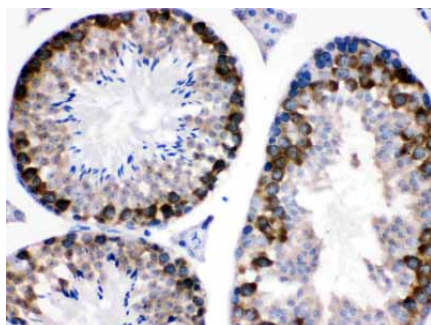
Stathmin 1/oncoprotein 18, also known as STMN1, is a highly conserved 17 kDa protein. This gene belongs to the stathmin family of genes. It encodes a ubiquitous cytosolic phosphoprotein proposed to function as an intracellular relay integrating regulatory signals of the cellular environment. The encoded 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.

Images

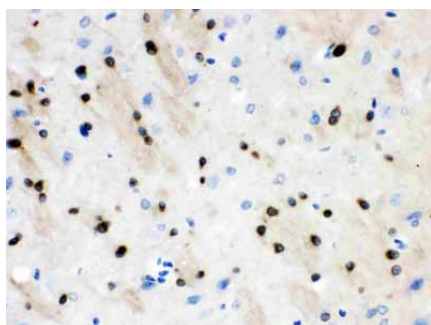
Anti- Stathmin 1 Picoband antibody, ABO12247, Western blotting
All lanes: Anti Stathmin 1 (ABO12247) at 0.5ug/ml
Lane 1: Mouse Brain Tissue Lysate at 50ug
Lane 2: Mouse Testis Tissue Lysate at 50ug
Lane 3: MM231 Whole Cell Lysate at 40ug
Lane 4: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 17KD
Observed bind size:



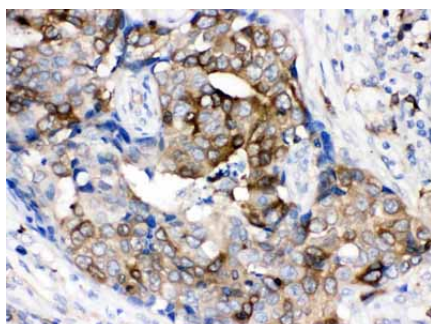
17KD



nti- Stathmin 1 Picoband antibody, ABO12247,
IHC(P)IHC(P): Mouse Testis Tissue



nti- Stathmin 1 Picoband antibody, ABO12247,
IHC(P)IHC(P): Rat Brain Tissue



nti- Stathmin 1 Picoband antibody, ABO12247,
IHC(P)IHC(P): Human Mammary Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.