Stathmin (Phospho Ser16) Rabbit pAb

CatalogNo: YP0197

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,IHC,IF,ELISA

MW	Isotype
• 17kD (Observed)	• IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Stathmin 1 around the phosphorylation site of Ser15. AA range:5-54

Specificity Phospho-Op18 (S16) Polyclonal Antibody detects endogenous levels of Op18 protein only when phosphorylated at S16.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RAsGQ

Target Information

Gene name STMN1

Protein Name Stathmin

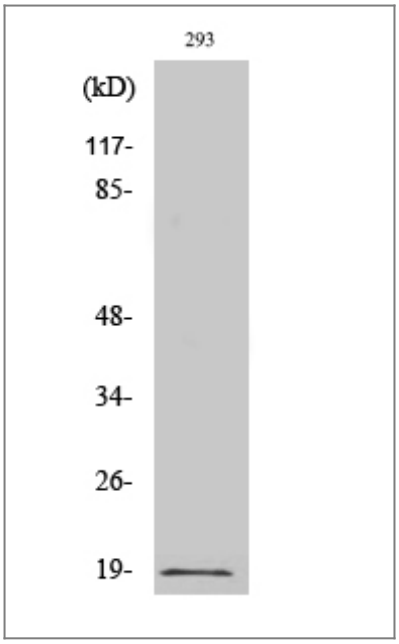
Organism	Gene ID	UniProt ID
Human	3925;	P16949;
Mouse	16765;	P54227;
Rat	29332;	P13668;

Cellular Localization Cytoplasm , cytoskeleton.

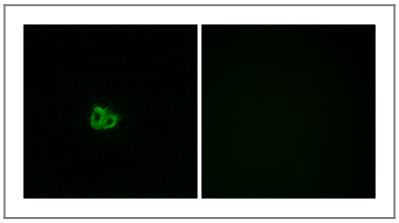
Tissue specificity Ubiquitous. Expression is strongest in fetal and adult brain , spinal cord , and cerebellum , followed by thymus , bone marrow , testis , and fetal liver. Expression is intermediate in colon , ovary , placenta , uterus , and trachea , and is readily detected at substantially lower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

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. ,

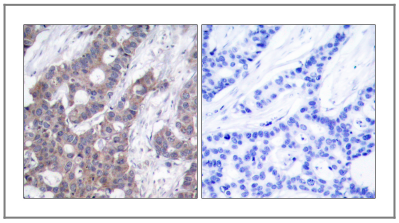
Validation Data



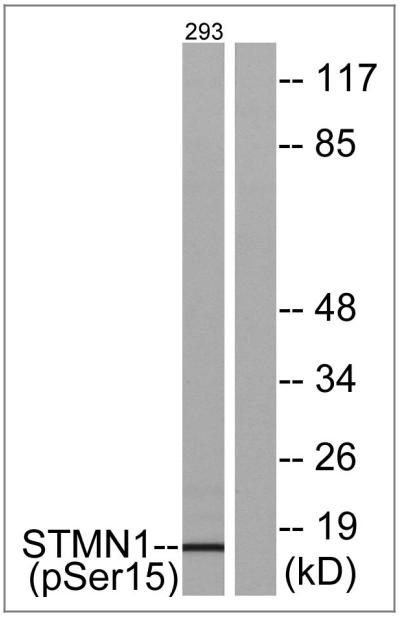
Western Blot analysis of various cells using Phospho-Op18 (S16) Polyclonal Antibody



Immunofluorescence analysis of COS7 cells, using Stathmin 1 (Phospho-Ser15) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Stathmin 1 (Phospho-Ser15) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells, using Stathmin 1 (Phospho-Ser15) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: http://www.immunoway.com
Address: 2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
Stathmin (Phospho Ser16) Rabbit pAb

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