

**Op18 (phospho Ser16) Polyclonal Antibody**

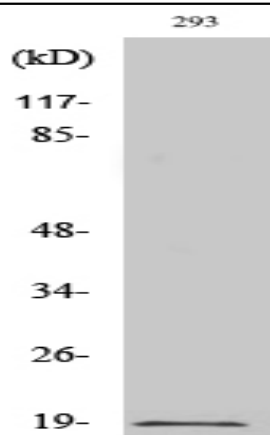
<b>Catalog No :</b>	YP0197
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Op18
<b>Fields :</b>	>>MAPK signaling pathway;>>MicroRNAs in cancer
<b>Gene Name :</b>	STMN1
<b>Protein Name :</b>	Stathmin
<b>Human Gene Id :</b>	3925
<b>Human Swiss Prot No :</b>	P16949
<b>Mouse Gene Id :</b>	16765
<b>Mouse Swiss Prot No :</b>	P54227
<b>Rat Gene Id :</b>	29332
<b>Rat Swiss Prot No :</b>	P13668
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Stathmin 1 around the phosphorylation site of Ser15. AA range:5-54
<b>Specificity :</b>	Phospho-Op18 (S16) Polyclonal Antibody detects endogenous levels of Op18 protein only when phosphorylated at S16.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.

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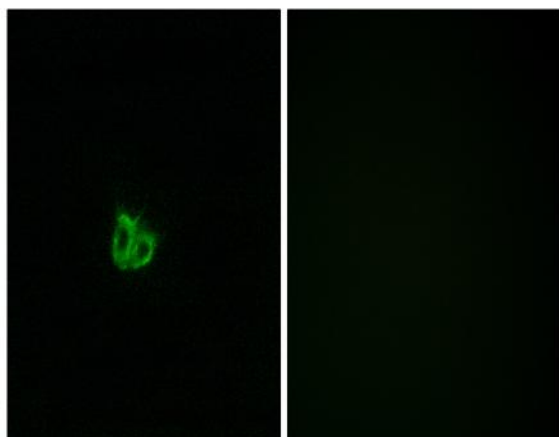
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	17kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	Cytoplasm, cytoskeleton.
<b>Expression :</b>	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.

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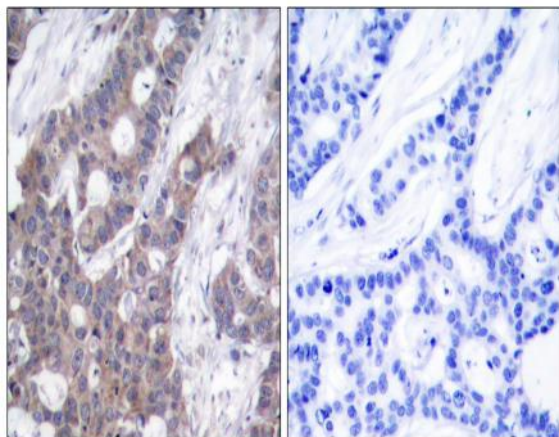
## Products Images



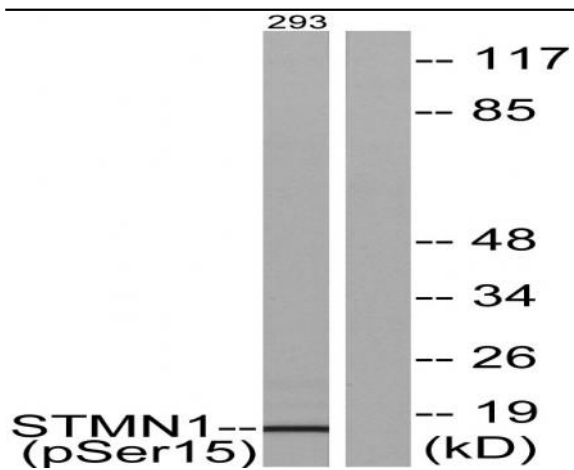
Western Blot analysis of various cells using Phospho-Op18 (S16) Polyclonal Antibody



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.