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STMN1

Rabbit Anti-Human Stathmin/OP18 Phospho-Ser16 Clone Poly6202 pAb

Catalog No.	CSI14282 CSI14283	**Quantity:**	50 µl 200 µl

Alternate Names: LAP18, Lag, OP18, PP17, PP19, PR22, SMN, leukemia-associated phosphoprotein p18, metablastin, oncoprotein 18, phosphoprotein 19, prosolin, stathmin 1

Description: Stathmin/Op18 is a 21 - 23 kD member of the Stathmin family. This protein is localized in the cytoplasm and becomes nuclear during the S/G2 phase of the cell cycle. Stathmin/Op18 acts as a microtubule destabilizer in mitotic spindle regulation and sequesters tubulin dimers into assembly-incompetent complexes. This protein participates as an intracellular relay integrating regulatory signals of the cellular environment and has been shown to be involved in megakaryocyte polyploidization. Stathmin/Op18 can be phosphorylated in response to heat; Ser62 phosphorylation reduces tubulin binding ability. This protein can also be modified by acetylation. Stathmin/Op18 has been shown to interact with tubulin, KIST, CaM kinase II and IV, Cdc2, MAPK, and Cdk1. The Poly6202 antibody recognizes human phosphorylated stathmin/Op18 (Ser16) and has been shown to be useful for Western blotting.

Concentration: 0.5 mg/ml

Gene ID: 3925

Structure: Stathmin family; 21 - 23 kD.

Distribution: Cytoplasm, nuclear during S/G2.

Host: Rabbit

Immunogen: Modified peptide

Isotype: IgG

Clone: Poly6202

Function: Microtubule destabilizer, mitotic spindle regulation, sequesters tubulin dimers into assembly incompetent complexes, intracellular relay integrating regulatory signals of the cellular environment, megakaryocyte polyploidization.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: The antibody was purified by antigen-affinity chromatography.

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Regulation: Heat-induced phosphorylation, Ser62 phosphorylation reduces tubulin binding ability.

Reactivity: Human, reacts against Ser16-phosphorylated Stathmin/Op18

Applications: Western Blot

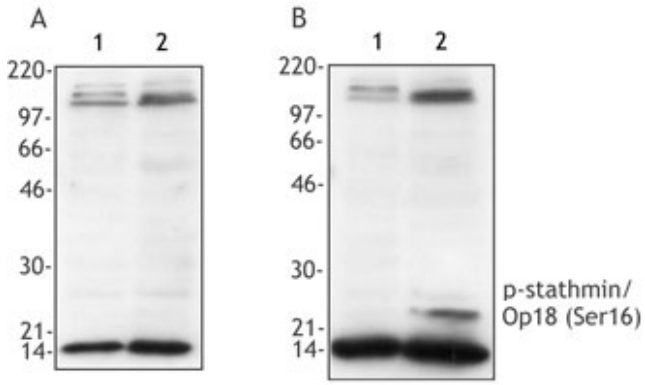
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application

Storage & Stability: Upon receipt, store frozen at -20° C.

Modification: Phosphorylation, Acetylation

Interaction: Tubulin, KIST, CaM kinase II and IV, Cdc2, MAPK, Cdk1.

Hela cells were treated with 300 µM mimosine for 16 hrs, then placed in complete media (lane 1) or media containing 200 ng/ml nocodazole (lane 2) for an additional 18 hrs and cell extract prepared, resolved by electrophoresis, and transferred to nitrocellulose. Nitrocellulose blots were treated overnight with 100 U/ml calf intestinal phosphatase (CIP) (panel A), or not treated with CIP (panel B), and probed with anti-phosphorylated Stathmin/Op18 (Ser16), Poly6202.



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