

产品名称: Op18 (phospho Ser62) Rabbit Polyclonal Antibody  
产品货号: AP Rab05137

## 产品概述 (Summary)

|                        |                                                 |
|------------------------|-------------------------------------------------|
| 产品名称 (Production Name) | Op18 (phospho Ser62) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                      |
| 宿主 (Host)              | Rabbit                                          |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA                             |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat,Monkey                          |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | STMN1                                                                                                                                                                     |
| 别名 (Alternative Names) | STMN1; C1orf215; LAP18; OP18; Stathmin; Leukemia-associated phosphoprotein p18; Metablastin; Oncoprotein 18; Op18; Phosphoprotein p19; pp19; Prosolin; Protein Pr22; pp17 |
| 基因 ID (Gene ID)        | 3925.0                                                                                                                                                                    |
| 蛋白 ID (SwissProt ID)   | P16949.The antiserum was produced against synthesized peptide derived from human STMN1 around the phosphorylation site of Ser62. AA range:26-75                           |

## 产品应用 (Application)

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000 |
| 蛋白分子量 (Molecular Weight) | 22kDa                                                                   |

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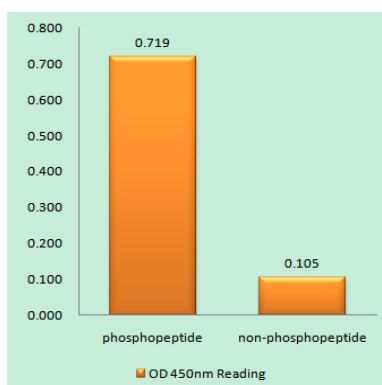
## 研究背景 (Background)

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],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.,

## 研究领域 (Research Area)

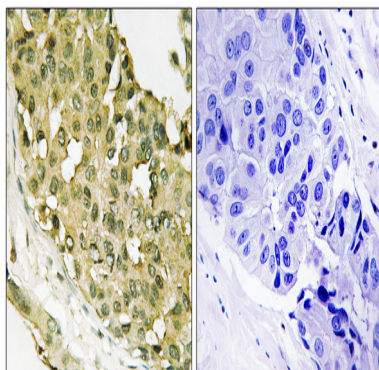
MAPK\_ERK\_Growth;MAPK\_G\_Protein;

## 图片 (Image Data)



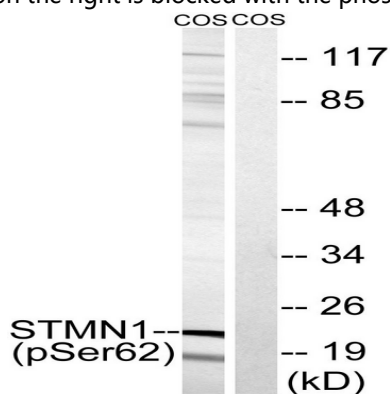
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using STMN1 (Phospho-Ser62) Antibody

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Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STMN1 (Phospho-Ser62) Antibody.

The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with nocodazole 1ug/ml 16h, using STMN1 (Phospho-Ser62)

Antibody. The lane on the right is blocked with the phospho peptide.

## 注意事项 (Note)

For research use only .