

Anti-Stathmin 1 antibody [EP1573Y] ab52630

重组 RabMAb

★★★★★ **5 Abreviews** **34 References** **14 图像**

概述

产品名称	Anti-Stathmin 1抗体[EP1573Y]
描述	兔单克隆抗体[EP1573Y] to Stathmin 1
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human Stathmin 1 aa 100 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P16949
阳性对照	WB: Human lymph node, Mouse brain, PC-12 whole cell lysates IP: human colon and HeLa cells. IHC-P: lymph node, Human lung carcinoma, Mouse brain, and Rat brain tissue. Flow Cyt (intra): Jurkat cells ICC/IF: HeLa cells
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1573Y

同种型

lgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab52630于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/60. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/100
ICC/IF		1/100 - 1/250.
WB	★★★★★ (2)	1/10000. Detects a band of approximately 19 kDa. For unpurified use at 1/50000
IP	★★★★★ (1)	1/30. For unpurified use at 1/50
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u>

靶标

功能

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.

组织特异性

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.

序列相似性

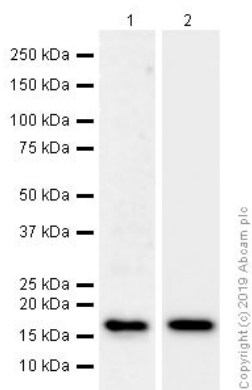
Belongs to the stathmin family.
Contains 1 SLD (stathmin-like) domain.

翻译后修饰

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.

细胞定位

Cytoplasm > cytoskeleton.



Western blot - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

All lanes : Anti-Stathmin 1 antibody [EP1573Y] (ab52630) at 1/50000 dilution (Purified)

Lane 1 : Mouse brain lysates

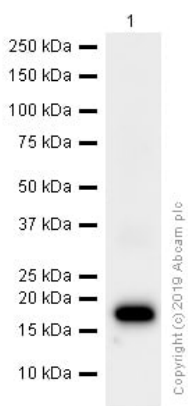
Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Observed band size: 18 kDa



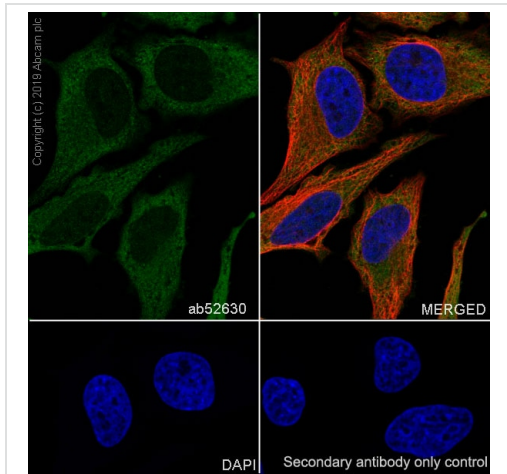
Western blot - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Anti-Stathmin 1 antibody [EP1573Y] (ab52630) at 1/10000 dilution (Purified) + Human lymph node lysates at 15 µg

Secondary

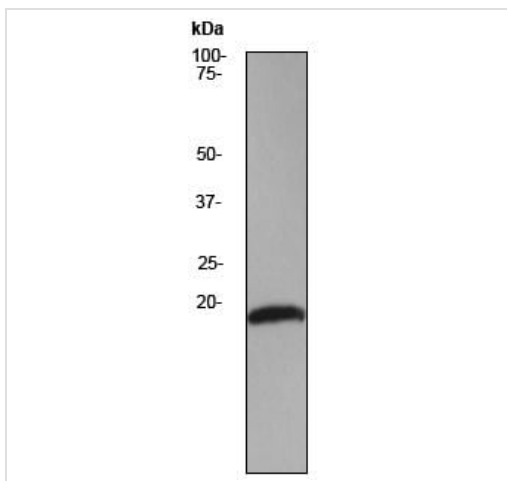
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 18 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Stathmin 1 with purified ab52630 at 1/200 dilution (3.1 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 (2.5 µg/ml) dilution. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



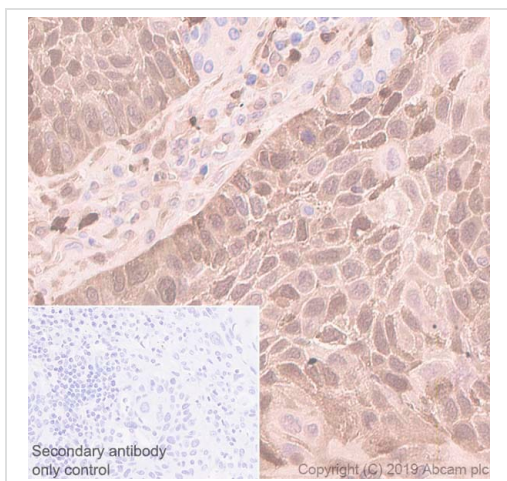
Western blot - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Anti-Stathmin 1 antibody [EP1573Y] (ab52630) at 1/500000 dilution + PC12 lysate at 10 µg

Secondary

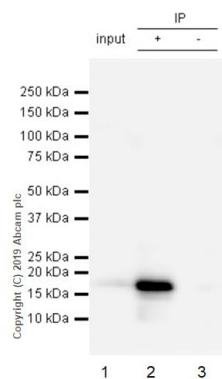
goat anti-rabbit HRP at 1/2000 dilution

Observed band size: 18 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung carcinoma tissue sections labeling Stathmin 1 with purified ab52630 at 1/2000 dilution (0.31 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunoprecipitation - Anti-Stathmin 1 antibody
[EP1573Y] (ab52630)

ab52630 (purified) at 1/30 dilution (2ug) immunoprecipitating Stathmin 1 in HeLa whole cell lysates.

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates 10ug

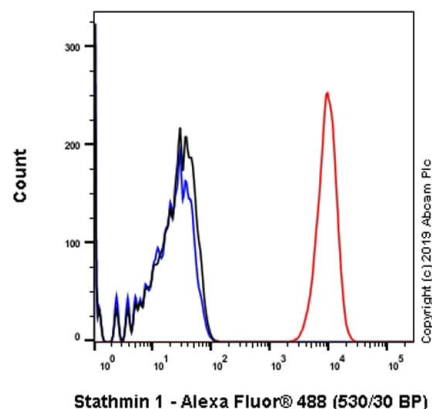
Lane 2 (+): ab52630 & HeLa whole cell lysates

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab52630 in HeLa whole cell lysates

For western blotting, VeriBlot for IP Detection Reagent (HRP)

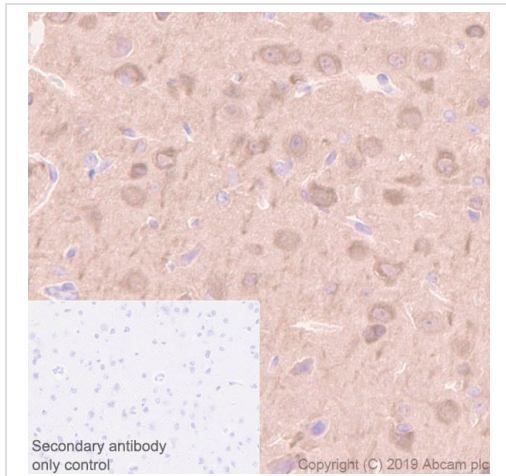
(**ab131366**) was used at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



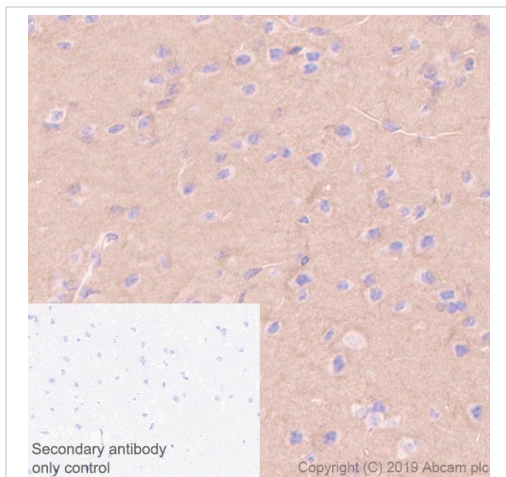
Flow Cytometry (Intracellular) - Anti-Stathmin 1
antibody [EP1573Y] (ab52630)

Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling Stathmin 1 with purified ab52630 at 1/60 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



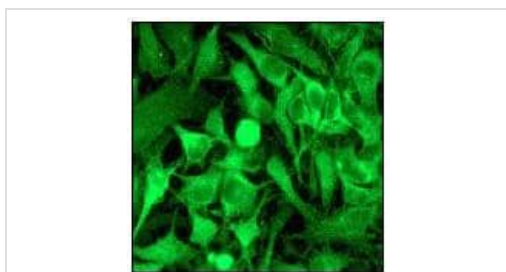
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat brain tissue sections labeling Stathmin 1 with purified ab52630 at 1/2000 dilution (0.31 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



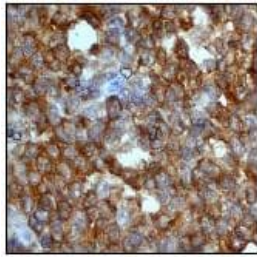
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse brain tissue sections labeling Stathmin 1 with purified ab52630 at 1/2000 dilution (0.31 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



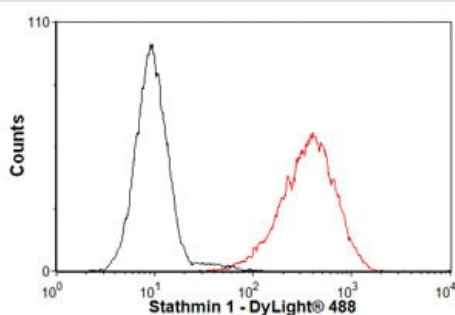
Immunocytochemistry/ Immunofluorescence - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

ab52630 stained HeLa cells



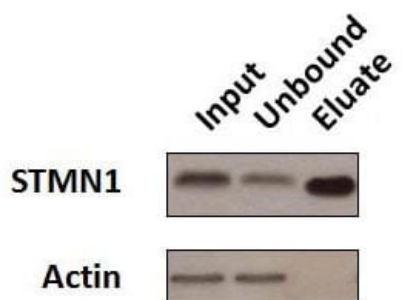
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

ab52630, at a 1/250 dilution, staining human Stathmin 1 in lymph node tissue, using Immunohistochemistry, Paraffin embedded sections.



Flow Cytometry (Intracellular) - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Overlay histogram showing Jurkat cells stained with ab52630 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab52630, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunoprecipitation - Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

Image courtesy of Qifeng Lin by Abreview.

Whole cell lysate prepared from human colon cells was loaded at 20µg. The immunoprecipitation step was performed using Protein A/G. ab52630 used at a 1/200 dilution for 12 hours at 4°C. For WB ab52630 used at a 1/10000 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Stathmin 1 antibody [EP1573Y] (ab52630)

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