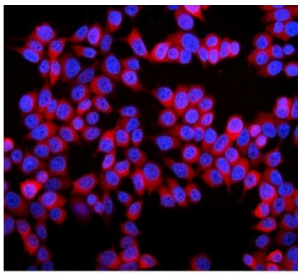
Stathmin 1 Antibody (R31986)

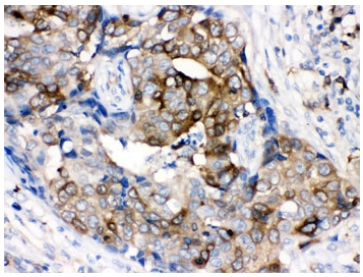
Catalog No.	Formulation	Size
R31986	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

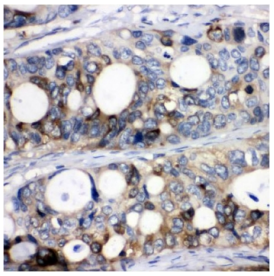
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P16949
Localization	Cytoplasmic
Applications	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Stathmin 1 antibody is available for research use only.



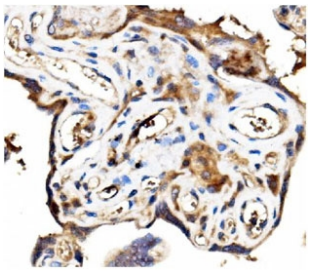
Immunofluorescent staining of FFPE human MCF-7 cells with Stathmin 1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



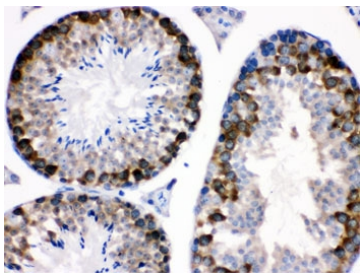
IHC testing of FFPE human breast cancer tissue with Stathmin 1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



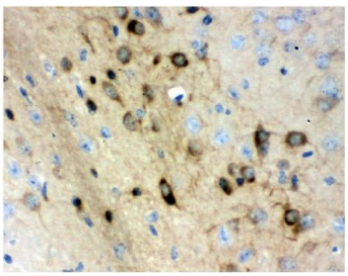
IHC testing of FFPE human intestinal cancer tissue with Stathmin 1 antibody. HIER: Boil the paraffin sections in pH 8 EDTA for 20 minutes and allow to cool prior to staining.



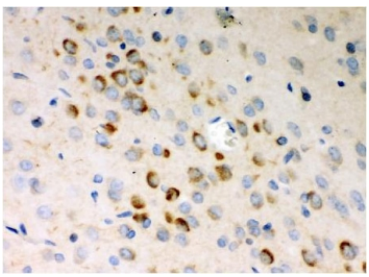
IHC testing of FFPE human placental tissue with Stathmin 1 antibody. HIER: Boil the paraffin sections in pH 8 EDTA for 20 minutes and allow to cool prior to staining.



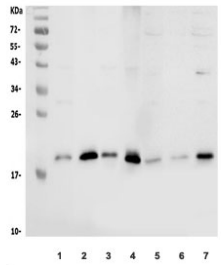
IHC testing of FFPE mouse testis with Stathmin 1 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



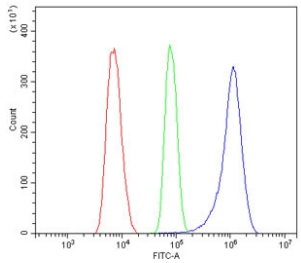
IHC testing of FFPE mouse brain tissue with Stathmin 1 antibody. HIER: Boil the paraffin sections in pH 8 EDTA for 20 minutes and allow to cool prior to staining.



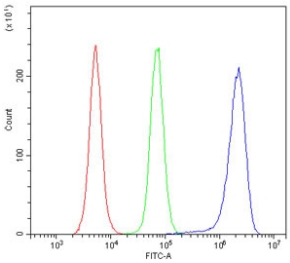
IHC testing of FFPE rat brain tissue with Stathmin 1 antibody. HIER: Boil the paraffin sections in pH 8 EDTA for 20 minutes and allow to cool prior to staining.



Western blot testing of 1) rat brain, 2) rat testis, 3) mouse brain, 4) mouse testis, 5) human MDA-MB-453, 6) human SH-SY5Y and 7) human Raji lysate with Stathmin 1 antibody. Expected molecular weight ~17 kDa.



Flow cytometry testing of human ThP-1 cells with Stathmin 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Stathmin 1 antibody.



Flow cytometry testing of mouse RAW264.7 cells with Stathmin 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Stathmin 1 antibody.

Description

Stathmin 1/oncoprotein 18, also known as STMN1, is a highly conserved 17 kDa protein. 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.

Application Notes

Optimal dilution of the Stathmin 1 antibody should be determined by the researcher.

Immunogen

Amino acids ASSDIQVKELEKRASGQAFELILSPRSKESVPE of human STMN1 were used as the immunogen for the Stathmin 1 antibody.

Storage

After reconstitution, the Stathmin 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.