ARG63902
anti-Stathmin 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Stathmin 1
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	ELISA, IHC-P, WB
Specificity	This antibody is expected to cross-react with isoform 1 a (NP_005554.1; NP_981944.1; NP_981946.1) only. The three reported isoforms (NP_005554.1, NP_981944.1 and NP_981946.1) represent identical protein.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Stathmin 1
Species	Human
Immunogen	C-KNKESKDPADETEAD
Conjugation	Un-conjugated
Alternate Names	PP17; Prosolin; Stathmin; Protein Pr22; PR22; Lag; C1orf215; PP19; pp19; SMN; OP18; Leukemia-associated phosphoprotein p18; LAP18; pp17; Oncoprotein 18; Phosphoprotein p19; Op18; Metablastin

Application Instructions

Application table

Application	Dilution
ELISA	Assay - dependent
IHC-P	3 - 5 µg/ml
WB	1 - 3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

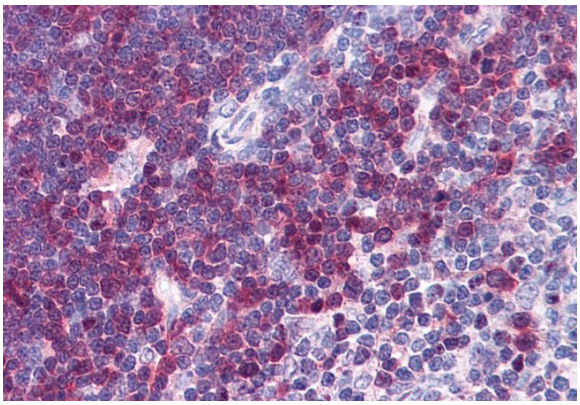
Bioinformation

Database links	GeneID: 16765 Mouse GeneID: 3925 Human Swiss-port # P16949 Human Swiss-port # P54227 Mouse
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]
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	17 kDa
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.

Images

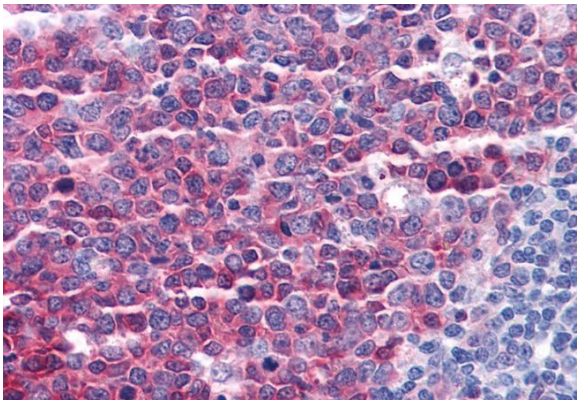
ARG63902 anti-Stathmin 1 antibody WB image

Western blot: Human Testis Lysate (35 µg protein in RIPA buffer) stained with ARG63902 anti-Stathmin 1 antibody at 1 µg/ml dilution.



ARG63902 anti-Stathmin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thymus tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63902 anti-Stathmin 1 antibody at 3.75 µg/ml dilution followed by AP-staining.



ARG63902 anti-Stathmin 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63902 anti-Stathmin 1 antibody at 3.75 µg/ml dilution followed by AP-staining.