



Product Specification Sheet

Stathmin antibody

□ Cat # STMN1-A

Rabbit anti-Human Stathmin antibody

SIZE: 100 ug

Stathmin is 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

Source of Antigen or Antibodies

Uniprot: P16949

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity purification

Immunogen: A synthetic peptide derived from the C-terminus region of Human Stathmin

Species Reactivity: Human

Cross reactivity: The peptide used as an immunogen exhibits the following % homology with various species; 100% Monkey, Dog, Camel, and Bovine. 95% Rat, Chinese Hamster, Mouse, and Chicken. Reactivity has only been confirmed for Human samples in-house

Subcellular Location: Cytoskeleton

Alternative names: Leukemia-associated phosphoprotein 18, Metablastin, Oncoprotein 18, Prosolin, Protein Pr22, pp17.

Tissue specificity: Ubiquitous. Strongest expression in fetal tissues. Low expression in adult tissues.

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)

Negative Control: Non-immune Rabbit IgG (**ADI cat# 20009-1**).

Form & Storage of Antibodies

□ **Affinity pure IgG Solution**

Concentration: 0.5 mg/ml Volume: 200 µl
Supplied in PBS pH 7.4 + 0.1% BSA

*Antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions.

Recommended Usage

Western Blotting: 0.5-2 µg/ml
Theoretical band size: 17-20 kDa

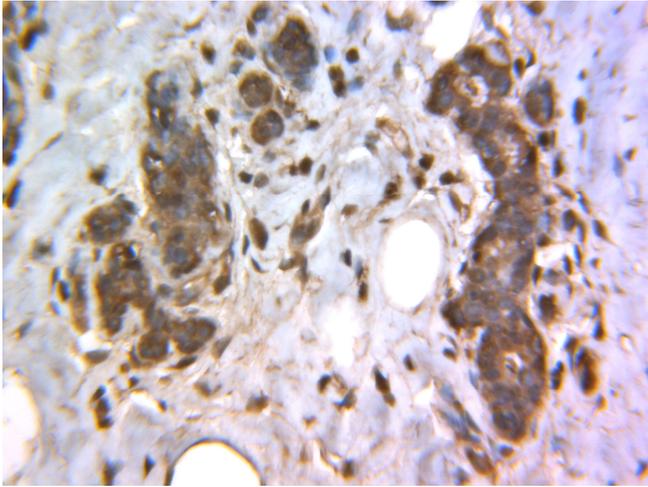
Immunohistochemistry: 1-10 µg/ml

*Above concentrations are a suggestion and user's must optimize assay based on their conditions. Antibody may work in other applications such as Immunocytochemistry or IP. These methods have not been tested by ADI.

**This product is for In vitro research use only.*

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FFPE Human Breast carcinoma: Human breast embedded tissue slide was heated for 20 minutes at 60°C then deparaffinized. Antigen retrieval was performed for 10 minutes at 95°C in a microwave using 10 mM pH 6, sodium citrate buffer. The slide was cooled for 20 minutes at room temperature then blocked for 30 minutes with 2.5% normal goat serum. **STMN1-A** was diluted to 5 µg/ml in TBST+0.1% BSA and incubated overnight at 4°C. The slide was washed twice and then incubated with 3% hydrogen peroxide for 10 minutes. The slide was washed then incubated with Goat anti-Rabbit IgG HRP polymer detection reagent for 30 minutes at room temperature. The slide was washed twice and incubated with DAB for 3 minutes, washed with distilled water, then counterstained for 1 minute with Gil's II Hematoxylin before being coverslipped.