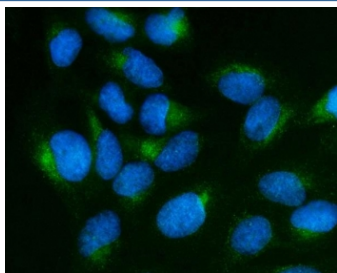


## Stathmin 2 Antibody / STMN2 / SCG10 (RQ6268)

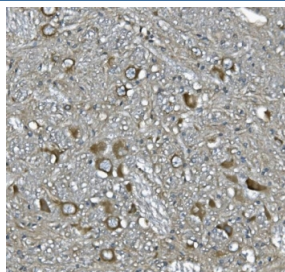
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ6268      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

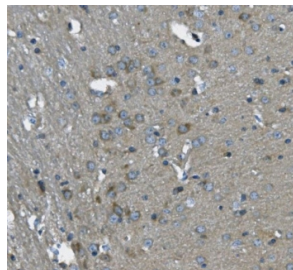
|                           |                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                                                                                       |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                                                                                                       |
| <b>Format</b>             | Antigen affinity purified                                                                                                                                               |
| <b>Host</b>               | Rabbit                                                                                                                                                                  |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                                                                              |
| <b>Isotype</b>            | Rabbit IgG                                                                                                                                                              |
| <b>Purity</b>             | Affinity purified                                                                                                                                                       |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose                                                                                                                               |
| <b>UniProt</b>            | Q93045                                                                                                                                                                  |
| <b>Applications</b>       | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Immunofluorescence : 5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| <b>Limitations</b>        | This Stathmin 2 antibody is available for research use only.                                                                                                            |



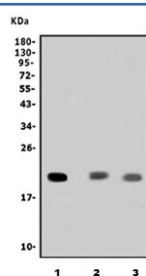
Immunofluorescent staining of FFPE human U-2 OS cells with Stathmin 2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



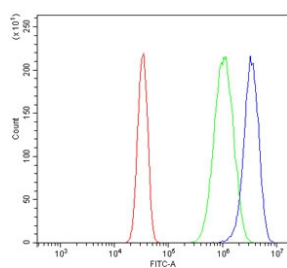
IHC staining of FFPE rat brain with Stathmin 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



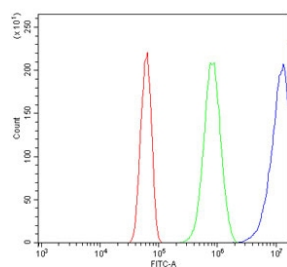
IHC staining of FFPE mouse brain with Stathmin 2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human SH-SY5Y, 2) rat brain and 3) mouse brain lysate with Stathmin 2 antibody. Predicted molecular weight ~21 kDa.



Flow cytometry testing of human U-2 OS cells with Stathmin 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Stathmin 2 antibody.



Flow cytometry testing of mouse Neuro-2a cells with Stathmin 2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Stathmin 2 antibody.

## Description

Stathmin-2 is a protein that in humans is encoded by the STMN2 gene. This gene encodes a member of the stathmin family of phosphoproteins. Stathmin proteins function in microtubule dynamics and signal transduction. The encoded protein plays a regulatory role in neuronal growth and is also thought to be involved in osteogenesis. Reductions in the expression of this gene have been associated with Down's syndrome and Alzheimer's disease. Alternatively spliced transcript variants have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 6.

## Application Notes

Optimal dilution of the Stathmin 2 antibody should be determined by the researcher.

## **Immunogen**

A human recombinant partial protein (amino acids S23-N170) was used as the immunogen for the Stathmin 2 antibody.

## **Storage**

After reconstitution, the Stathmin 2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.