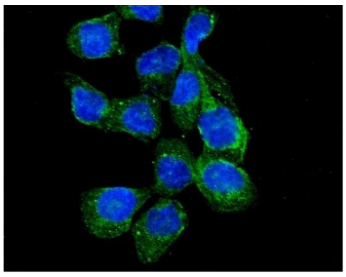
RASGAP Antibody / RASA1 (R32007)

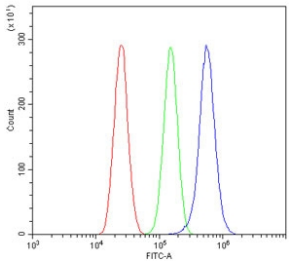
Catalog No.	Formulation	Size
R32007	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

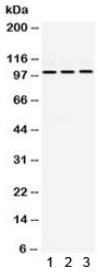
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P20936
Applications	Western blot: 0.1-0.5ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This RASGAP antibody is available for research use only.



Immunofluorescent staining of FFPE human A431 cells with RASGAP antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human U-87 MG cells with RASGAP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RASGAP antibody.



Western blot testing of human 1) HeLa, 2) MCF7 and 3) SMMC cell lysate with RASGAP antibody. Expected molecular weight ~116/100 kDa (long/short form).

Description

RASA1, also known as RAS p21 protein activator 1 or RASGAP, is a 120-kDa cytosolic human protein. The protein encoded by this gene is located in the cytoplasm and is part of the GAP1 family of GTPase-activating proteins. The gene product stimulates the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. Mutations leading to changes in the binding sites of either protein are associated with basal cell carcinomas. Mutations also have been associated with hereditary capillary malformations (CM) with or without arteriovenous malformations (AVM) and Parkes Weber syndrome. Alternative splicing results in two isoforms where the shorter isoform, lacking the N-terminal hydrophobic region but retaining the same activity, appears to be abundantly expressed in placental but not adult tissues.

Application Notes

Optimal dilution of the RASGAP antibody should be determined by the researcher.

Immunogen

Amino acids AQQHVLKKLLAITELLQQKQNQYTKTNDVR of human RASA1 were used as the immunogen for the RASGAP antibody.

Storage

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

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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