

Datasheet for ABIN967706

anti-RASA1 antibody (AA 381-390)**4** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	RASA1
Binding Specificity:	AA 381-390
Reactivity:	Human, Rat, Mouse, Dog, Chicken, Frog
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human Ras-GAP aa.381-390
Clone:	13-RAS
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine), Chicken, Frog
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	RASA1
Alternative Name:	Ras-GAP (RASA1 Products)
Background:	<p>Ras-GAP, a protein of approximately 120kDa, is thought to serve as a down-regulator of p21ras by stimulating its otherwise weak intrinsic GTPase activity. Both growth factor receptor and oncogene-encoded tyrosine kinases require functional membrane-associated Ras proteins in order to affect mitogenesis. The manner in which p21ras acts as a signal transducer is still a matter of speculation. The Ras-GTPase stimulating activity has been found to reside in the carboxy-terminal region of Ras-GAP, while the amino-terminal region contains two SH2 domains and an intervening SH3 domain. In cells stimulated with EGF or transformed by pp60 [v-src], Ras-GAP becomes phosphorylated on both tyrosine and serine residues and forms distinct complexes with two phosphorylated proteins of 62 and 190kDa. The tyrosine phosphorylation of Ras-GAP may modulate its subcellular localization and activity as a negative regulator of p21ras.</p> <p>This antibody routinely tested by western blot analysis.</p>
Molecular Weight:	120 kDa
Pathways:	Regulation of Actin Filament Polymerization , Signaling of Hepatocyte Growth Factor Receptor , VEGFR1 Specific Signals

Application Details

Comment:	Related Products: ABIN968619, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

Publications

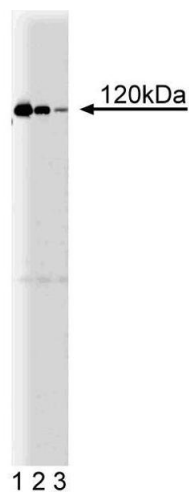
Product cited in: Cichowski, Santiago, Jardim, Johnson, Jacks: "Dynamic regulation of the Ras pathway via proteolysis of the NF1 tumor suppressor." in: **Genes & development**, Vol. 17, Issue 4, pp. 449-54, (2003) ([PubMed](#)).

Sato, Ogata, De Luca: "Annexin V inhibits the 12-O-tetradecanoylphorbol-13-acetate-induced activation of Ras/extracellular signal-regulated kinase (ERK) signaling pathway upstream of Shc in MCF-7 cells." in: **Oncogene**, Vol. 19, Issue 25, pp. 2904-12, (2000) ([PubMed](#)).

Dupont, Blancq: "Formation of complexes involving RasGAP and p190 RhoGAP during morphogenetic events of the gastrulation in xenopus." in: **European journal of biochemistry / FEBS**, Vol. 265, Issue 2, pp. 530-8, (1999) ([PubMed](#)).

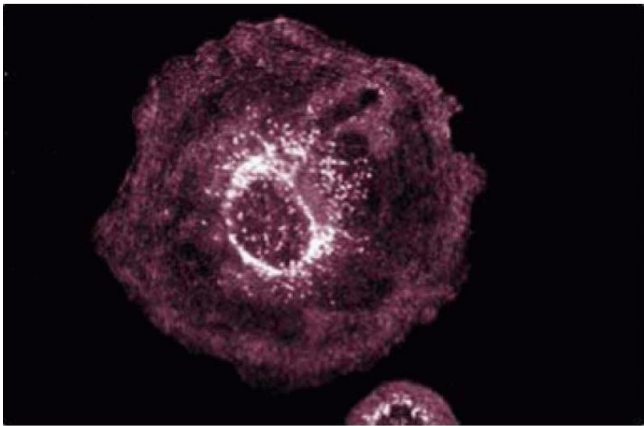
Kaplan, Morrison, Wong, McCormick, Williams: "PDGF beta-receptor stimulates tyrosine phosphorylation of GAP and association of GAP with a signaling complex." in: **Cell**, Vol. 61, Issue 1, pp. 125-33, (1990) ([PubMed](#)).

Molloy, Bottaro, Fleming, Marshall, Gibbs, Aaronson: "PDGF induction of tyrosine phosphorylation of GTPase activating protein." in: **Nature**, Vol. 342, Issue 6250, pp. 711-4, (1990) ([PubMed](#)).



Western Blotting

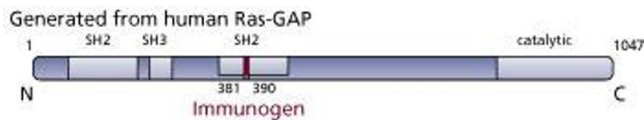
Image 1. Western blot analysis of Ras-GAP on a MDCK cell lysate (Canine kidney, ATCC CCL-34). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- Ras-GAP antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of Hs 766T cells (Human pancreatic carcinoma, ATCC HTB-134).

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967706.