

Datasheet for ABIN967814

anti-RAP1 antibody (AA 1-184)**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	RAP1 (TERF2IP)
Binding Specificity:	AA 1-184
Reactivity:	Human, Mouse, Rat, Chicken, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Human Rap1 aa. 1-184
Clone:	3-Rap1
Isotype:	IgG1
Cross-Reactivity:	Chicken, Frog, Mouse (Murine), Rat (Rattus)
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. 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.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	RAP1 (TERF2IP)
Alternative Name:	Rap1 (TERF2IP Products)
Background:	Rap1 is a member of the large Ras superfamily of low molecular weight GTP/GDP binding proteins. Like Ras, the Rap proteins cycle between a GDP-bound inactive form and a GTP-bound active form. Since Ras and Rap have the same amino acid sequence in their putative effector domain (aa. 32-40), it seems likely that they perform either similar or antagonistic functions. Rap1A and Rap1B are highly homologous proteins, differing in only 9 of their 184 amino acids. Overexpression of Rap1A (also known as Krev-1) causes reversion of the phenotype of a Ki-Ras-transformed cell line. In vitro, Rap1 can compete efficiently with p21ras for interaction with Ras-GAP. Though they appear to have similar activities, Rap1 and Ras differ in their cellular localization. Ras is found on the inner surface of the plasma membrane while Rap1 is associated with the Golgi. This antibody is routinely tested by western blot analysis.
Molecular Weight:	21 kDa
Pathways:	Cell Division Cycle , Telomere Maintenance

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

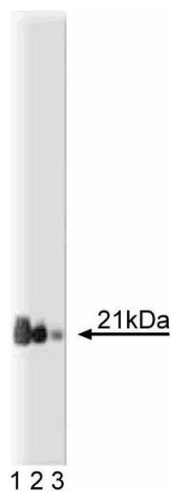
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment: Store undiluted at -20° C.

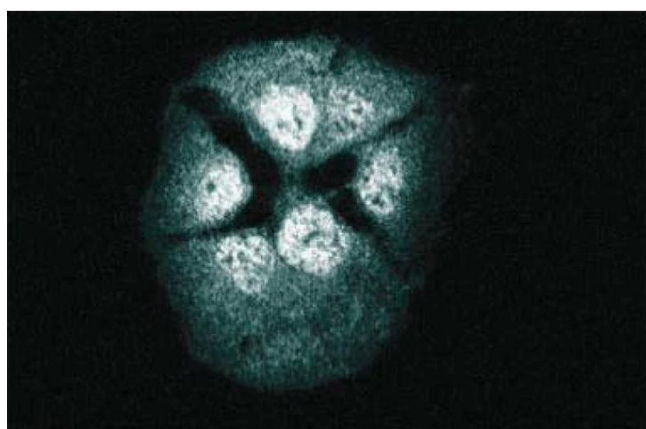
Publications

- Product cited in:
- Larson, Chen, Kahn, Taylor, Fabre, Mortensen, Conley, Parise: "Identification of P2Y12-dependent and -independent mechanisms of glycoprotein VI-mediated Rap1 activation in platelets." in: **Blood**, Vol. 101, Issue 4, pp. 1409-15, (2003) ([PubMed](#)).
- Wu, Lai, Mobley: "Nerve growth factor activates persistent Rap1 signaling in endosomes." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 21, Issue 15, pp. 5406-16, (2001) ([PubMed](#)).
- Xing, Ge, Zeltser, Maskevitch, Mayer, Alexandropoulos: "c-Src signaling induced by the adapters Sin and Cas is mediated by Rap1 GTPase." in: **Molecular and cellular biology**, Vol. 20, Issue 19, pp. 7363-77, (2000) ([PubMed](#)).
- Okada, Pessin: "Insulin and epidermal growth factor stimulate a conformational change in Rap1 and dissociation of the CrkII-C3G complex." in: **The Journal of biological chemistry**, Vol. 272, Issue 45, pp. 28179-82, (1997) ([PubMed](#)).
- Yamamoto, Kaibuchi, Mizuno, Hiroyoshi, Shirataki, Takai: "Purification and characterization from bovine brain cytosol of proteins that regulate the GDP/GTP exchange reaction of smg p21s, ras p21-like GTP-binding proteins." in: **The Journal of biological chemistry**, Vol. 265, Issue 27, pp. 16626-34, (1990) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of Rap1 on a Jurkat cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti- Rap1 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of A431 cells.