

Datasheet for ABIN7599729

anti-RAP1GAP antibody (AA 11-661)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	RAP1GAP
Binding Specificity:	AA 11-661
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAP1GAP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-RAP1GAP Antibody Picoband®
Immunogen:	E.coli-derived human RAP1GAP recombinant protein (Position: D11-L661).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-RAP1GAP Antibody Picoband® (ABIN7599729). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	RAP1GAP
Alternative Name:	RAP1GAP (RAP1GAP Products)
Background:	<p>Synonyms: Non-homologous end-joining factor 1, Protein cernunnos, XRCC4-like factor, NHEJ1, XLF</p> <p>Tissue Specificity: Widely expressed.</p> <p>Background: Rap1 GTPase-activating protein 1 is an enzyme that in humans is encoded by the RAP1GAP gene. This gene encodes a type of GTPase-activating-protein (GAP) that down-regulates the activity of the ras-related RAP1 protein. RAP1 acts as a molecular switch by cycling between an inactive GDP-bound form and an active GTP-bound form. The product of this gene, RAP1GAP, promotes the hydrolysis of bound GTP and hence returns RAP1 to the inactive state whereas other proteins, guanine nucleotide exchange factors (GEFs), act as RAP1 activators by facilitating the conversion of RAP1 from the GDP- to the GTP-bound form. In general, ras subfamily proteins, such as RAP1, play key roles in receptor-linked signaling pathways that control cell growth and differentiation. RAP1 plays a role in diverse processes such as cell proliferation, adhesion, differentiation, and embryogenesis. Alternative splicing results in multiple transcript variants encoding distinct proteins.</p>
Molecular Weight:	95 kDa
Gene ID:	5909
UniProt:	P47736

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Daumke, O., Weyand, M., Chakrabarti, P. P., Vetter, I. R., Wittinghofer, A. The GTPase-activating protein Rap1GAP uses a catalytic asparagine. Nature 429: 197-201, 2004. 2. Rubinfeld, B., Munemitsu, S., Clark, R., Conroy, L., Watt, K., Crosier, W. J., McCormick, F., Polakis, P. Molecular cloning of a GTPase activating protein specific for the Krev-1 protein p21-rap1. Cell 65: 1033-1042, 1991. 3. Weiss, J., Rubinfeld, B., Polakis, P. G., McCormick, F., Cavenee, W. K., Arden, K. C. The RAP1GA1 locus for human Rap1-GTPase activating protein 1 maps to chromosome 1p36.1-p35. Cytogenet. Cell Genet. 66: 18-21, 1994.</p>
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Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.