

Product datasheet for **TA342188**

RAP1GAP Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-RAP1GAP antibody: synthetic peptide directed towards the middle region of human RAP1GAP. Synthetic peptide located within the following region: TWLEDSVSTTSGGSSPGSPRSPHPDAGKLGDPACPEIKIQLEASEQHMPQ
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	73 kDa
Gene Name:	RAP1 GTPase activating protein
Database Link:	NP_002876 Entrez Gene 5909 Human P47736



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Background:

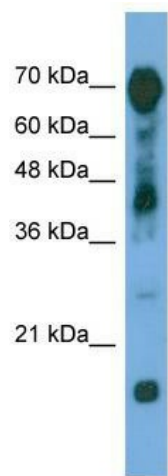
This gene encodes a type of GTPase-activating-protein (GAP) that down-regulates the activity of the ras-related RAP1 protein. RAP1 acts as a molecular switch by cycling between an inactive GDP-bound form and an active GTP-bound form. The product of this gene, RAP1GAP, promotes the hydrolysis of bound 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. [provided by RefSeq, Aug 2011]

Synonyms:

RAP1GA1; RAP1GAP1; RAP1GAPII; RAPGAP

Note:

Immunogen Sequence Homology: Dog: 100%; Horse: 100%; Human: 100%; Bovine: 100%; Rat: 93%; Pig: 86%; Guinea pig: 86%; Mouse: 79%

Product images:

WB Suggested Anti-RAP1GAP Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1:1562500; Positive
Control: Transfected 293T