10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RAC2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21363b

Product Information

Application	WB, IF, E
Primary Accession	P15153
Reactivity	Human, Mouse
Predicted	Rat, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52171
Calculated MW	21429

Additional Information

Gene ID	5880
Other Names	Ras-related C3 botulinum toxin substrate 2, GX, Small G protein, p21-Rac2, RAC2
Target/Specificity	This RAC2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 178-192 amino acids from the C-terminal region of human RAC2.
Dilution	WB~~1:2000 IF~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RAC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAC2 (HGNC:9802)
Function	Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state (PubMed:30723080). In its active state, binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytose of apoptotic cells and epithelial cell

	polarization. Regulatory subunit of the phagocyte NADPH oxidase complex that mediates the transfer of electrons from cytosolic NADPH to O2 to produce the superoxide anion (O2(-)) (PubMed:1660188). Activates PLCG2 (PubMed:19394299).
Cellular Location	Cytoplasm. Note=Membrane-associated when activated
Tissue Location	Hematopoietic specific.

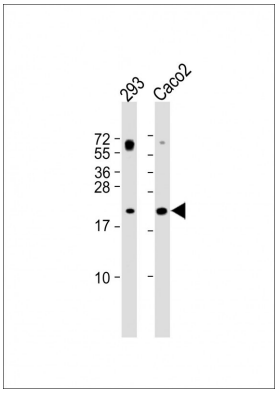
Background

Plasma membrane-associated small GTPase which cycles between an active GTP-bound and inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses, such as secretory processes, phagocytose of apoptotic cells and epithelial cell polarization. Augments the production of reactive oxygen species (ROS) by NADPH oxidase.

References

Didsbury J.,et al.J. Biol. Chem. 264:16378-16382(1989).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Dunham I.,et al.Nature 402:489-495(1999).

Images



All lanes : Anti-RAC2 Antibody (C-term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: Caco2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.