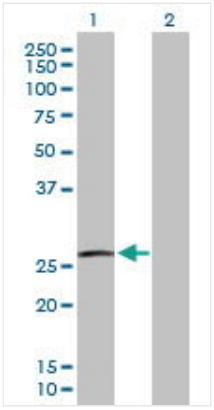
RAC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RAC3, Polyclonal Antibody
Full Product Name	RAC3 (Ras-Related C3 Botulinum Toxin Substrate 3, p21-Rac3) (Biotin)
Product Gene Name	anti-RAC3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human RAC3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap
Molecular Weight	21,379 Da
OMIM	602050
3D Structure	ModBase 3D Structure for P60763
Immunogen	Full length human RAC3, aa1-192 (NP_005043.1).
Immunogen Sequence	MQAIKCVVVGDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPQTDVFLICFSLVSPASFENVRAKWYPE
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-RAC3 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-RAC3 antibody	Western Blot (WB)
Application Notes for anti-RAC3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-RAC3 antibody	The protein encoded by this gene is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appe protein kinases. [provided by RefSeq].

Other Notes	Small volumes of anti-RAC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess with dry ice and additional dry ice fee may apply.
Searchable Terms for RAC3 purchase	MBS6391805 is an antibody targeting RAC3. Also known as RAC3 (Ras-Related C3 Botulinum Toxin Substrate 3, p21-Rac3) (Biotin). Reactive in Hum



Western Blot (WB) of anti-RAC3 antibody
Western Blot analysis of RAC3 expression in transfected 293T cell line by RAC3 polyclonal antibody. Lane 1: RAC3 transfected lysate (21.4kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAC3. It may not necessarily be applicable to this product.

NCBI GI #	4826962
NCBI GeneID	5881
NCBI Accession #	NP_005043.1
UniProt Primary Accession #	P60763
UniProt Secondary Accession #	O14658; Q5U0M8
UniProt Related Accession #	P60763
GenBank Nucleotide #	NM_005052
NCBI Official Full Name	ras-related C3 botulinum toxin substrate 3
NCBI Official Synonym Full Names	ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)
NCBI Official Symbol	RAC3
UniProt Protein Name	Ras-related C3 botulinum toxin substrate 3
UniProt Synonym Protein Names	p21-Rac3
Protein Family	Rac-like GTP-binding protein
UniProt Gene Name	RAC3
UniProt Entry Name	RAC3_HUMAN
NCBI Protein Information	ras-related C3 botulinum toxin substrate 3; p21-Rac3; rho family, small GTP binding protein Rac3
NCBI Summary for RAC3	The protein encoded by this gene is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. [provided by RefSeq, Jul 2008]

UniProt Comments for RAC3	RAC3: 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 cell spreading and the formation of actin-based protusions including lamellipodia and membrane ruffles. Interacts with the GEF protein DOCK7, which promotes the exchange between GDP and GTP, and therefore activates it. Interacts with C1D. Expression down-regulated in quiescent fibroblasts and clearly induced by serum stimulation. Highest levels in brain, also detected in heart, placenta and pancreas. Belongs to the small GTPase superfamily. Rho family. Protein type: Motility/polarity/chemotaxis; G protein; G protein, monomeric; G protein, monomeric, Rho Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: filamentous actin; neuron projection; growth cone; cell soma; perinuclear region of cytoplasm; lamellipodium; plasma membrane; endomembrane system; cytosol Molecular Function: GTPase activity; protein binding; GTP binding; calcium-dependent protein binding Biological Process: regulation of small GTPase mediated signal transduction; metabolic process; small GTPase mediated signal transduction; positive regulation of cell adhesion mediated by integrin; cell projection biogenesis; actin cytoskeleton organization and biogenesis; neuromuscular process controlling balance; neurite development
Research Articles on RAC3	**1.** Collectively these data unveil that FBXL19 functions as an antagonist of Rac3 by regulating its stability and regulates the TGFbeta1-induced E-cadherin down-regulation.
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