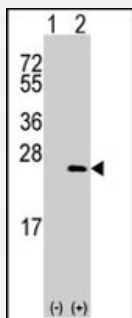


RAC1 polyclonal antibody

Catalog # PAB2976

Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of RAC1 polyclonal antibody (Cat # PAB2976). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the RAC1 gene (Lane 2) (Origene Technologies).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RAC1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S71 of human RAC1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western blot analysis of RAC1 polyclonal antibody (Cat # PAB2976). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the RAC1 gene (Lane 2) (Origene Technologies).

Gene Info — RAC1

Entrez GeneID	5879
Protein Accession#	NP_008839:P63000
Gene Name	RAC1
Gene Alias	MGC111543, MIG5, TC-25, p21-Rac1
Gene Description	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
Omim ID	602048
Gene Ontology	Hyperlink
Gene Summary	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	migration-inducing gene 5 migration-inducing protein 5 ras-related C3 botulinum toxin substrate 1 ras-related C3 botulinum toxin substrate 1 isoform Rac1 ras-related C3 botulinum toxin substrate 1 isoform Rac1b rho family, small GTP binding protein Rac1

Publication Reference

- [Protein kinase C-epsilon regulates sphingosine 1-phosphate-mediated migration of human lung endothelial cells through activation of phospholipase D2, protein kinase C-zeta, and Rac1.](#)

Gorshkova I, He D, Berdyshev E, Usatuyk P, Burns M, Kalari S, Zhao Y, Pendyala S, Garcia JG, Pyne NJ, Brindley DN, Natarajan V.

The Journal of Biological Chemistry 2008 Apr; 283(17):11794.

Application: IF, WB, Human , HPAECs

- [PDGF-induced human airway smooth muscle cell proliferation requires STAT3 and the small GTPase Rac1.](#)

Simeone-Penney MC, Severgnini M, Rozo L, Takahashi S, Cochran BH, Simon AR.

American Journal of Physiology. Lung Cellular and Molecular Physiology 2008 Apr; 294(4):L698.

Application: IF, WB-Tr, Human, HASMC cells

- [Non-syndromic mental retardation is not expressed in RAC1 gene polymorphisms.](#)

Wang T, Zhang K, Zheng Z, Gao X, Li R, Zhang F.

Neuroscience Letters 2008 May; 437(2):71.

Pathway

- [Adherens junction](#)
- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Axon guidance](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Colorectal cancer](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [MAPK signaling pathway](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)

- [Renal cell carcinoma](#)
- [Toll-like receptor signaling pathway](#)
- [VEGF signaling pathway](#)
- [Wnt signaling pathway](#)

Disease

- [Angina Pectoris](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Coronary Vasospasm](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [HIV Infections](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mental Retardation](#)
- [Occupational Diseases](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)