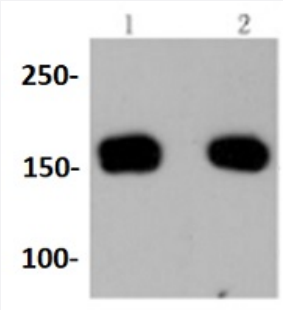
RecomAb™

ROCK1 recombinant monoclonal antibody

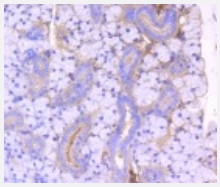
Catalog # RAB02768 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Lane1:A431 whole cell lysate Lane2:NIH/3T3 whole cell lysate with ROCK1 recombinant monoclonal antibody (Cat # RAB02768) at 1:1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded mouse thyroid tissue using ROCK1 recombinant monoclonal antibody (Cat # RAB02768).Counter stained with hematoxylin.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against ROCK1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant ROCK1.
Theoretical MW (kDa)	158
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of ROCK-1 and does not cross-react with related proteins.

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Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50-1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunocytochemistry

- Immunofluorescence

- Flow Cytometry

Gene Info — ROCK1

Entrez GeneID	6093
Protein Accession#	Q13464

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Gene Name	ROCK1
Gene Alias	MGC131603, MGC43611, P160ROCK, PRO0435
Gene Description	Rho-associated, coiled-coil containing protein kinase 1
Omim ID	601702
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein serine/threonine kinase that is activated when bound to the GTP-bound form of Rho. The small GTPase Rho regulates formation of focal adhesions and stress fibers of fibroblasts, as well as adhesion and aggregation of platelets and lymphocytes by shuttling between the inactive GDP-bound form and the active GTP-bound form. Rho is also essential in cytokinesis and plays a role in transcriptional activation by serum response factor. This protein, a downstream effector of Rho, phosphorylates and activates LIM kinase, which in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. [provided by RefSeq
Other Designations	OTTHUMP00000162514|p160-ROCK

Pathway

- Axon guidance
- Chemokine signaling pathway
- Focal adhesion
- Leukocyte transendothelial migration
- Pathogenic Escherichia coli infection - EHEC
- Regulation of actin cytoskeleton
- TGF-beta signaling pathway
- Vascular smooth muscle contraction
- Wnt signaling pathway

Disease

- Adenocarcinoma
- Cardiovascular Diseases
- Diabetes Mellitus

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- Edema
- Genetic Predisposition to Disease
- HIV Infections
- Obesity
- Ovarian Failure
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Puberty
- Schizophrenia
- Thrombophilia
- Tobacco Use Disorder

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