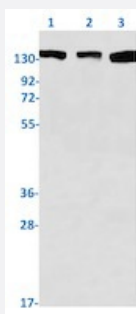


RecomAb™

ROCK1 recombinant monoclonal antibody, clone R09-3D3

Catalog # RAB01940 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: C6, Lane 2: 3T3 and Lane 3: Hela lysates with ROCK1 recombinant monoclonal antibody, clone R09-3D3 (Cat # RAB01940).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ROCK1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ROCK1.
Theoretical MW (kDa)	Calculated MW: 158 k
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

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

Western blot analysis of Lane 1: C6, Lane 2: 3T3 and Lane 3: Hela lysates with ROCK1 recombinant monoclonal antibody, clone R09-3D3 (Cat # RAB01940).

- Immunoprecipitation

Gene Info — ROCK1

Entrez GeneID[6093](#)**Protein Accession#**[Q13464](#)**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](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)