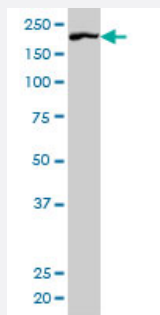


ROCK1 monoclonal antibody (M01), clone 2E2

Catalog # H00006093-M01

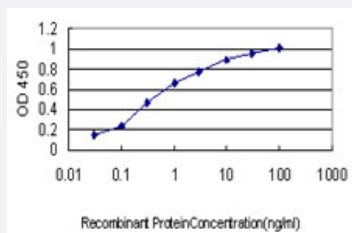
Size 100 ug

Applications



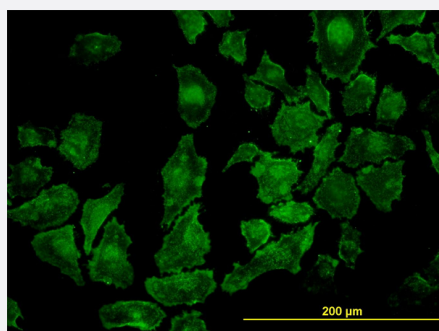
Western Blot (Cell lysate)

ROCK1 monoclonal antibody (M01), clone 2E2 Western Blot analysis of ROCK1 expression in HeLa S3 NE (Cat # L013V3).



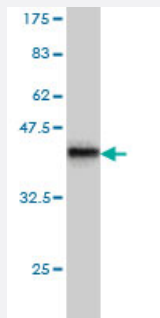
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ROCK1 is approximately 0.03ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to ROCK1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ROCK1.
Immunogen	ROCK1 (NP_005397, 401 a.a. ~ 510 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SNRRYLSSANPNDNRTSSNADKSLQESLQKTYKLEEQHLNEMQLKDEMEQKCRTSNIKLDKIMK ELDEEGNQRRNLESTVSQIEKEKMLLQHRINEYQRKAEQENEKRR
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (92)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ROCK1 monoclonal antibody (M01), clone 2E2 Western Blot analysis of ROCK1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ROCK1 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ROCK1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — ROCK1

Entrez GeneID [6093](#)

GeneBank Accession# [NM_005406](#)

Protein Accession# [NP_005397](#)

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

Publication Reference

- [A novel role of Rho-kinase in the regulation of ligand-induced phosphorylated EGFR endocytosis via the early/late endocytic pathway in human fibrosarcoma cells.](#)

Nishimura Y, Bereczky B, Yoshioka K, Taniguchi S, Itoh K.

Journal of Molecular Histology 2011 Oct; 42(5):427.

Application: IF, Human, HT-1080 cells

- [Integration of virtual screening with high-throughput screening for the identification of novel Rho-kinase I inhibitors.](#)

Gong LL, Fang LH, Peng JH, Liu AL, Du GH.

Journal of Biotechnology 2009 Dec; 145(3):295.

Application: WB-Re, Recombinant protein

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](#)