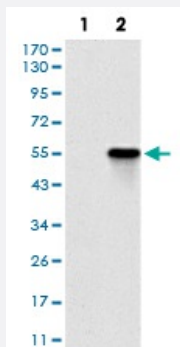


ROCK1 monoclonal antibody, clone 1H4

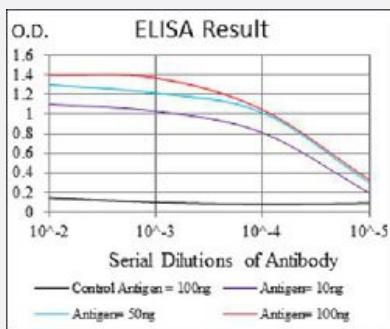
Catalog # MAB17710 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) ROCK1-hlgGfC transfected HEK293 cell lysate with ROCK1 monoclonal antibody.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ROCK1 monoclonal antibody, clone 1H4.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human ROCK1.
Immunogen	Recombinant protein corresponding to human ROCK1 from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	158
Reactivity	Human
Form	Liquid
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Flow Cytometry Immunocytochemistry Immunohistochemistry Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% 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 (1) HEK293 cells, (2) ROCK1-hlgGfc transfected HEK293 cell lysate with ROCK1 monoclonal antibody.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of ROCK1 monoclonal antibody, clone 1H4.

Gene Info — ROCK1

Entrez GeneID	6093
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](#)