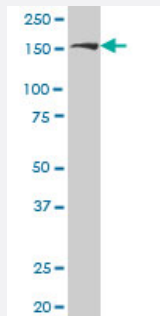


ROCK2 monoclonal antibody (M02), clone 1E12

Catalog # H00009475-M02

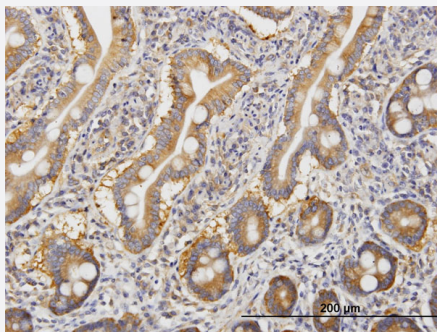
Size 100 ug

Applications



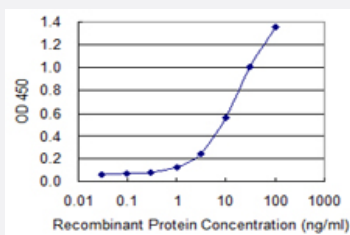
Western Blot (Cell lysate)

ROCK2 monoclonal antibody (M02), clone 1E12 Western Blot analysis of ROCK2 expression in HeLa S3 NE (Cat # L013V3).



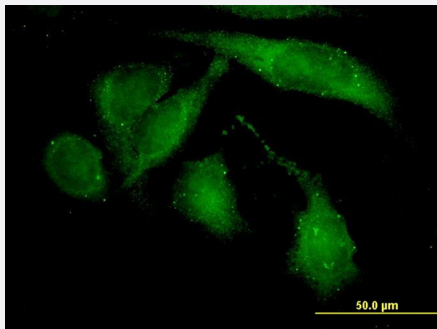
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ROCK2 on formalin-fixed paraffin-embedded human small intestine. [antibody concentration 1.5 ug/ml]



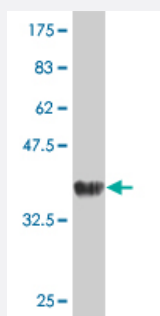
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ROCK2 is 0.3 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to ROCK2 on HeLa cell. [antibody concentration 30 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ROCK2.
Immunogen	ROCK2 (NP_004841, 1279 a.a. ~ 1388 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	KPLWHMFKPPPALECRCHIKCHKDHMDKKEEIIAPCKVYYDISTAKNLLLLANSTEEQQKWVSRL VKKIPKKPPAPDPFARSSPRTSMKIQNQSIIRPSRQLAPNKPS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
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)

ROCK2 monoclonal antibody (M02), clone 1E12 Western Blot analysis of ROCK2 expression in HeLa S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to ROCK2 on formalin-fixed paraffin-embedded human small intestine. [antibody concentration 1.5 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ROCK2 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ROCK2 on HeLa cell. [antibody concentration 30 ug/ml]

Gene Info — ROCK2

Entrez GeneID	9475
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GeneBank Accession#	NM_004850
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Protein Accession#	NP_004841
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Gene Name	ROCK2
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Gene Alias	KIAA0619
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Gene Description	Rho-associated, coiled-coil containing protein kinase 2
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Omim ID	604002
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Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a serine/threonine kinase that regulates cytokinesis, smooth muscle contraction, the formation of actin stress fibers and focal adhesions, and the activation of the c-fos serum response element. This protein, which is an isozyme of ROCK1 is a target for the small GTPase Rho. [provided by RefSeq]

Other Designations

OTTHUMP00000195104

Publication Reference

- [Identification of Homoharringtonine as a potent inhibitor of glioblastoma cell proliferation and migration.](#)

Elena Porcù, Francesca Maule, Lorenzo Manfreda, Elena Mariotto, Silvia Bresolin, Alice Cani, Roberta Bortolozzi, Alessandro Della Puppa, Diana Corallo, Giampietro Viola, Elena Rampazzo, Luca Persano.

Translational Research 2023 Jan; 251:41.

Application: WB, Human, primary glioblastoma cells

- [Aortic smooth muscle cell alterations in mice systemically exposed to arsenic.](#)

Chen SC, Huang SY, Lin WT, Yang RC, Yu HS.

Heart and Vessels 2016 May; 31(5):807.

Application: WB, Mouse, Mouse aortic tissues

- [Vascular hyperpermeability in response to inflammatory mustard oil is mediated by Rho kinase in mice systemically exposed to arsenic.](#)

Chen SC, Liu CC, Huang SY, Chiou SJ.

Microvasc Res 2011 Jun; 82:182.

Application: WB-Ti, Mouse, Ear

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

- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Neoplasm Metastasis](#)
- [Pre-Eclampsia](#)