

ROCK1 Rabbit mAb

Catalog No: #48890

Package Size: #48890-1 50ul #48890-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

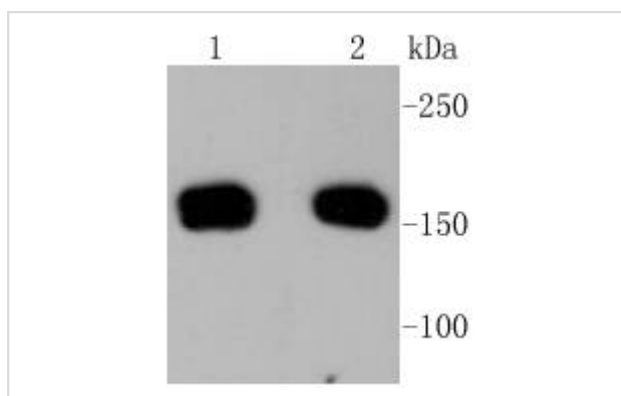
Description

Product Name	ROCK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST05-19
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	coiled-coil-containing protein kinase 1 antibody coiled-coil-containing protein kinase I antibody MGC131603 antibody MGC43611 antibody p160 Rhoassociated coiled coil-forming protein kinase antibody p160 ROCK-1 antibody p160 ROCK1 antibody p160ROCK antibody PRO0435 antibody Renal carcinoma antigen NY REN 35 antibody Renal carcinoma antigen NY-REN-35 antibody Rho associated coiled coil containing protein kinase 1 antibody Rho associated protein kinase 1 antibody Rho kinase antibody Rho-alpha kinase antibody Rho-associated antibody Rho-associated protein kinase 1 antibody ROCK I antibody ROCK-I antibody ROCK1 antibody ROCK1_HUMAN antibody Rok antibody rokalpha antibody
Accession No.	Swiss-Prot#:Q13464
Calculated MW	158 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

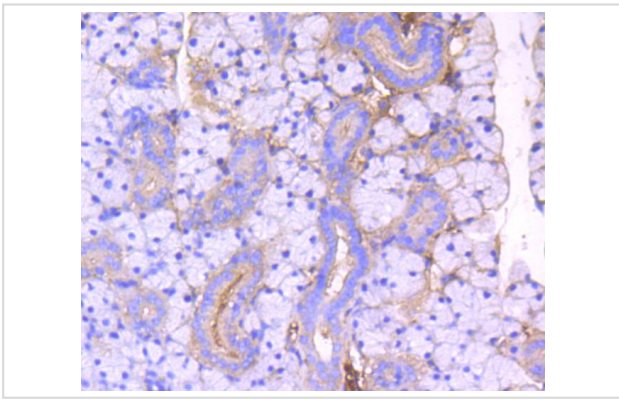
Application Details

WB: 1:1,000-5,000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:50-1:100

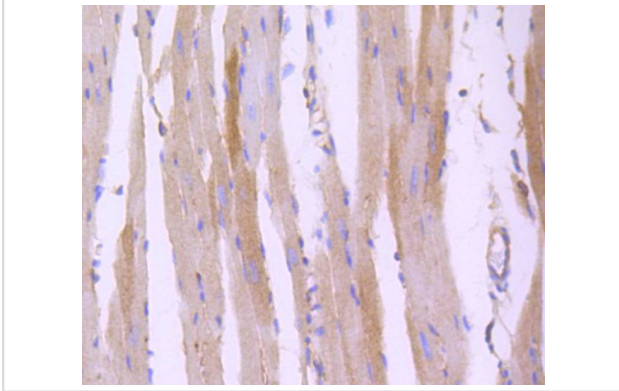
Images



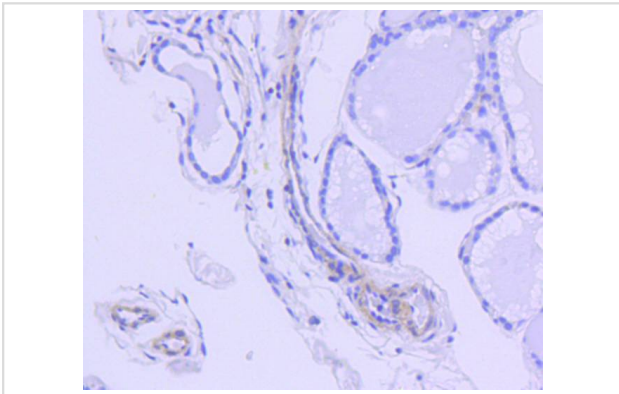
Western blot analysis of ROCK1 on different lysates using anti-ROCK1 antibody at 1/1,000 dilution. Positive control:
Lane 1: A431 Lane 2: NIH/3T3



Immunohistochemical analysis of paraffin-embedded mouse thyroid tissue using anti-ROCK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-ROCK1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human thyroid tissue using anti-ROCK1 antibody. Counter stained with hematoxylin.

Background

Rho, the Ras-related small GTPase, is responsible for the regulation of Actin-based cytoskeletal structures including stress fibers, focal adhesions and the contractile ring apparatus. Rho proteins function as molecular switches that are able to turn cytokinesis on and off. Although little is known about signaling downstream of Rho, a host of putative Rho effector proteins have been described, including rhotekin, citron and the serine/threonine kinase, protein kinase N. Two additional Rho-activated serine/threonine kinases have been described, designated Rock-1 and Rock-2 (also referred to as Roka, for Rho-associated coil-containing protein kinase). Rock-1 and Rock-2 share a structural similarity with myotonic dystrophy kinase.

References

1. Gentry EG et al. Rho Kinase Inhibition as a Therapeutic for Progressive Supranuclear Palsy and Corticobasal Degeneration. *J Neurosci* 36:1316-23 (2016).
2. Cai SD et al. MicroRNA-144 inhibits migration and proliferation in rectal cancer by downregulating ROCK-1. *Mol Med Rep* 12:7396-402 (2015).

Published Papers

et al., Neferine, a novel ROCK1-targeting inhibitor, blocks EMT process and induces apoptosis in non-small cell lung cancer. In *J Cancer Res Clin Oncol* on 2022 Aug 19

by Po Hu, Peng Wan, et al..PMID:35984492, , (2022)

[PMID:35984492](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.