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Datasheet for ABIN6135894

anti-ROCK1 antibody

1 Image

Overview

Quantity:	100 µL
Target:	ROCK1
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This ROCK1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant protein of human ROCK1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies

Target Details

Target:	ROCK1
Alternative Name:	ROCK1 (ROCK1 Products)
Background:	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

Target Details

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. A pseudogene, related to this gene, is also located on chromosome 18.,ROCK1,P160ROCK,ROCK-I,Cancer,Signal Transduction,G protein signaling,Kinase,Serine/threonine kinases,Cell Biology & Developmental Biology,Apoptosis,Cell Cycle,Centrosome,Cell Adhesion,Cytoskeleton,Microfilaments,Microtubules,Actins,Death Receptor Signaling Pathway,TGF-b-Smad Signaling Pathway,ROCK1

Molecular Weight: 158 kDa

Gene ID: 6093

UniProt: [Q13464](#)

Pathways: [Microtubule Dynamics](#), [WNT Signaling](#), [M Phase](#), [Maintenance of Protein Location](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Thromboxane A2 Receptor Signaling](#)

Application Details

Application Notes: WB,1:500 - 1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

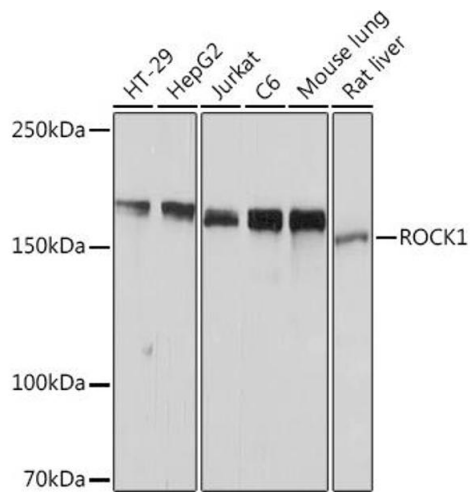
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using ROCK1 Rabbit mAb (ABIN6129453, ABIN6135894, ABIN6135895 and ABIN7101375) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.