Data Sheet (Cat.No.TMAC-03616)

Anti-ROCK1 Antibody (4X563)

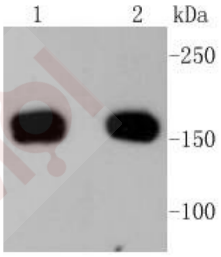
Product Details

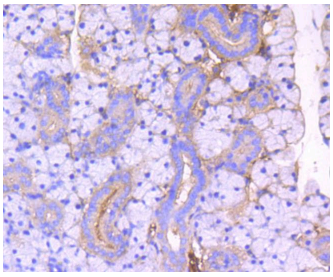
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 158 kDa.
Clone:	4X563
Purification:	ProA affinity purified

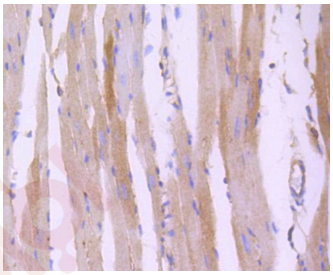
Applications

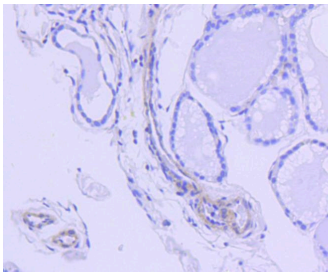
Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded mouse thyroid tissue using anti-ROCK1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-ROCK1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human thyroid tissue using anti-ROCK1 antibody. Counter stained with hematoxylin.









Application:	FCM,ICC/IF,IHC,IP,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q13464
Synonyms:	Rho associated protein kinase 1;p160 ROCK1;ROCK 1;Renal carcinoma antigen NY REN 35; p160ROCK;Rho associated coiled coil containing protein kinase 1

Research 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 rhophilin, 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.

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