Anti-ROCK1 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P100021

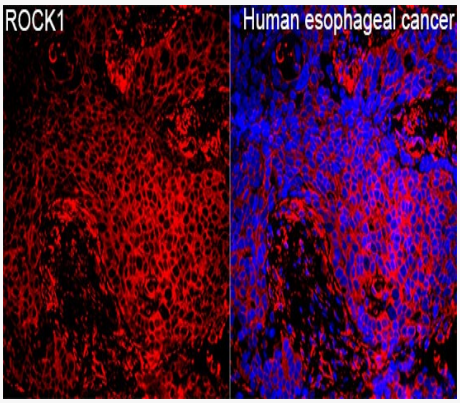
Product Information

Application	WB, IP, IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:2000; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells; IF 1:100~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 400-660 of human ROCK1 (NP_005397.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ROCK1 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

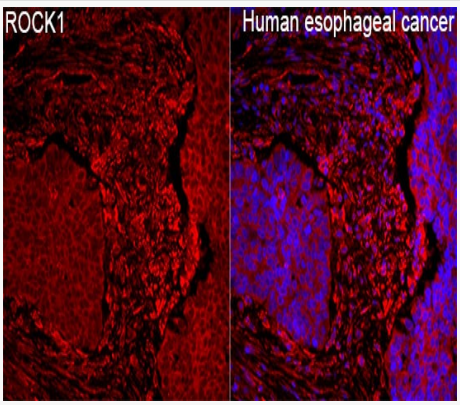
Protein Information

Synonyms	ROCK-I; P160ROCK; ROCK1.
Calculated MW	Calculated MW: 158 kDa; Observed MW: 158 kDa
Uniprot ID	Q13464
Gene ID	6093
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 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.

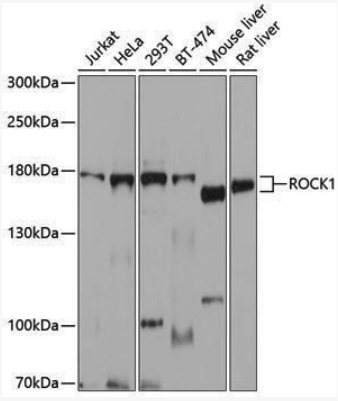
Validation Images



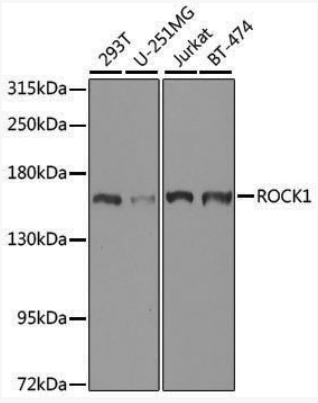
Immunofluorescence analysis of Human esophageal cancer tissue using ROCK1 Rabbit pAb (P100021) at a dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining. High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.



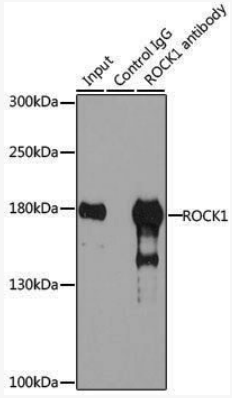
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Western blot analysis of various lysates using ROCK1 Rabbit pAb (P100021) at 1:1,000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit.
Exposure time: 10s.



Western blot analysis of various lysates using ROCK1 Rabbit pAb (P100021) at 1:1,000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 90s.



Immunoprecipitation analysis of 200 µg extracts of 293T cells, using 3 µg ROCK1 antibody (P100021). Western blot was performed from the immunoprecipitate using ROCK1 antibody (P100021) at a dilution of 1:1000.