

A1008

Leader in Biomolecular Solutions for Life Science



[KO Validated] ROCK1 Rabbit pAb

Catalog No.: A1008 **KO Validated** **3 Publications**

Basic Information

Observed MW

158kDa

Calculated MW

158kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,ELISA

Cross-Reactivity

Human,Mouse

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.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:100

Immunogen Information

Gene ID	Swiss Prot
6093	Q13464

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 400-660 of human ROCK1 (NP_005397.1).

Synonyms

ROCK-I; P160ROCK; K1

Contact

 www.abclonal.com

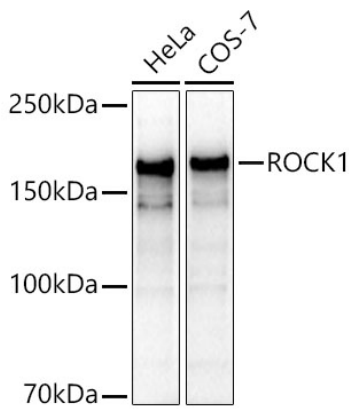
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

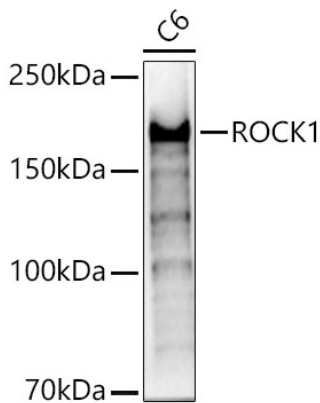
Storage

Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

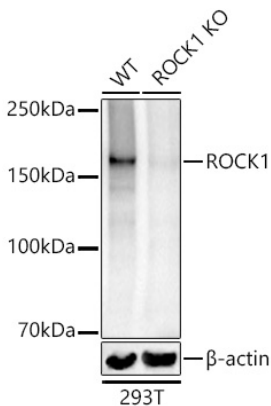
Validation Data



Western blot analysis of various lysates, using [KO Validated] ROCK1 Rabbit pAb (A1008) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

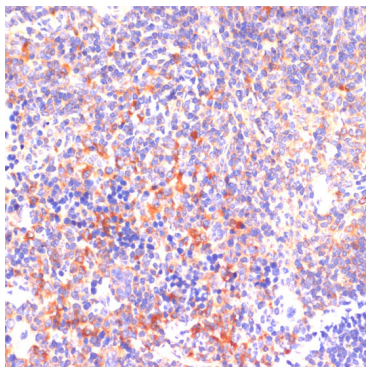


Western blot analysis of lysates from C6 cells, using [KO Validated] ROCK1 Rabbit pAb (A1008) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Western blot analysis of lysates from wild type(WT) and ROCK1 knockout (KO) 293T cells, using [KO Validated] ROCK1 Rabbit pAb (A1008) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

Validation Data



Immunohistochemistry analysis of paraffin-embedded mouse spleen using [KO Validated] ROCK1 Rabbit pAb (A1008) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.