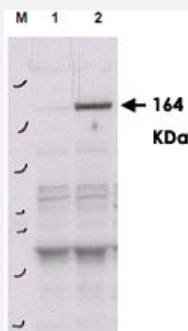


ROCK2 (phospho Y256) polyclonal antibody

Catalog # PAB11303 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot using ROCK2 (phospho Y256) polyclonal antibody (Cat # PAB11303) shows detection of phosphorylated ROCK2 in transfected 293T cells.

Lane 1 shows lysate expressing exogenous ROCK2 where the insert contains the transversion Y256A.

Lane 2 shows the lysate expressing WT ROCK2.

The primary antibody was used at a 1 : 1000 dilution.

Personal Communication, A. Papageorge and X. Qian, NCI, Bethesda, MD.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ROCK2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Y256 of human ROCK2.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to human ROCK-2 protein phosphorylated at Y256.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000-1:10000) Western Blot (1:200-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide).

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ROCK2

Entrez GeneID[9475](#)**Protein Accession#**[BAA75636; O75116](#)**Gene Name**

ROCK2

Gene Alias

KIAA0619

Gene Description

Rho-associated, coiled-coil containing protein kinase 2

Omim ID[604002](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a serine/threonine kinase that regulates cytokinesis, smooth muscle contraction, the formation of actin stress fibers and focal adhesions, and the activation of the c-fos serum response element. This protein, which is an isozyme of ROCK1 is a target for the small GTPase Rho. [provided by RefSeq]

Other Designations

OTTHUMP00000195104

Publication Reference

- [Rho GTPases: promising cellular targets for novel anticancer drugs.](#)

Fritz G, Kaina B.

Current Cancer Drug Targets 2006 Feb; 6(1):1.

- [Rho signalling at a glance.](#)

Schwartz M.

Journal of Cell Science 2004 Nov; 117(Pt 23):5457.

Application: WB, Human, Cancers, Mammalian cells

- [Localization of the gene coding for ROCK II/Rho kinase on human chromosome 2p24.](#)

Takahashi N, Tuiki H, Saya H, Kaibuchi K.

Genomics 1999 Jan; 55(2):235.

Pathway

- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Regulation of actin cytoskeleton](#)
- [TGF-beta signaling pathway](#)
- [Vascular smooth muscle contraction](#)
- [Wnt signaling pathway](#)

Disease

- [Breast Neoplasms](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Neoplasm Metastasis](#)
- [Pre-Eclampsia](#)