

Product datasheet for **TA319436**

ROCK2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:2,000 - 1:20,000, WB: 1:200 - 1:2,000, IHC: User Optimized
Reactivity:	Human
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding Y256 of human ROCK-2.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Rho associated coiled-coil containing protein kinase 2
Database Link:	NP_004841 Entrez Gene 9475 Human O75116
Synonyms:	ROCK-II



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Note: This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Progression of tumors to invasive and metastatic forms requires that tumor cells undergo dramatic morphological changes, a process regulated by Rho GTPases. Increased levels of RhoA or RhoC, as well as the Rho effector proteins ROCK-1 or ROCK-2, were observed in various human carcinomas. In vivo studies have also shown that ROCK inhibition reduced the invasiveness of several tumor cell lines. It is suggested that Rho and ROCK signaling contribute to the morphological changes and metastatic behavior of some tumor cells. Thus, elevated Rho and ROCK expression is associated with tumorigenesis, particularly during the progression to invasive and metastatic phenotypes. Phosphorylation of certain residues in ROCK-2 may be critical for its kinase activity.

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Axon guidance, Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton, TGF-beta signaling pathway, Vascular smooth muscle contraction, Wnt signaling pathway

Product images:



Western blot using affinity purified anti-ROCK-2 pY256 antibody shows detection of phosphorylated ROCK-2 in transfected 293T cells. Lane 1 shows lysate expressing exogenous ROCK-2 where the insert contains the transversion Y256A. Lane 2 shows the lysate expressing WT ROCK-2. A lysate containing a GST null vector also shows no specific staining (data not shown). Primary antibody was used at a 1:1000 dilution. Personal Communication, A. Papageorge and X. Qian, NCI, Bethesda, MD.