

Immunotag™ Rock-2 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4163
Product Description	Immunotag™ Rock-2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	ROCK-2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat,Monkey
Host Species	Rabbit
Immunogen	Synthesized peptide derived from Rock-2, at AA range: 660-740
Specificity	Rock-2 Polyclonal Antibody detects endogenous levels of Rock-2 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	ROCK2
Accession No.	O75116 P70336 Q62868
Alternate Names	ROCK2; KIAA0619; Rho-associated protein kinase 2; Rho kinase 2; Rho-associated; coiled-coil-containing protein kinase 2; Rho-associated, coiled-coil-containing protein kinase II; ROCK-II; p164 ROCK-2

Antibody Specification

Description	Rho associated coiled-coil containing protein kinase 2(ROCK2) Homo sapiens 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, Jul 2008],
Cell Pathway/ Category	Chemokine,Vascular smooth muscle contraction,WNT,WNT-T CELLTGF-beta,Axon guidance,Focal adhesion,Leukocyte transendothelial migration,Regulates Actin and Cytoskeleton,Pathogenic Escherichia coli infection,
Protein Expression	Brain,Epithelium,PCR rescued clones,
Subcellular Localization	intracellular,nucleus,centrosome,cytosol,plasma membrane,cytoplasmic ribonucleoprotein granule,
Protein Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Activated by RHOA binding.,function:Protein kinase that phosphorylates a large number of important signaling proteins, and thereby regulates the assembly of the actin cytoskeleton. Promotes formation of stress fibers and of focal adhesion complexes. Plays a role in smooth muscle contraction.,miscellaneous:Inhibited by Y-27632.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 phorbol-ester/DAG-type zinc finger.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 REM (Hr1) repeat.,subcellular location:Cytoplasmic, and associated with actin microfilaments and the plasma membrane.,subunit:Homodimer. Binds RHOA that has been activated by GTP binding. Binds IRS1, RHOB and RHOC.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.