ROCK2 (Phospho-Tyr722) antibody

Catalog No: #12068

Package Size: #12068-1 50ul #12068-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

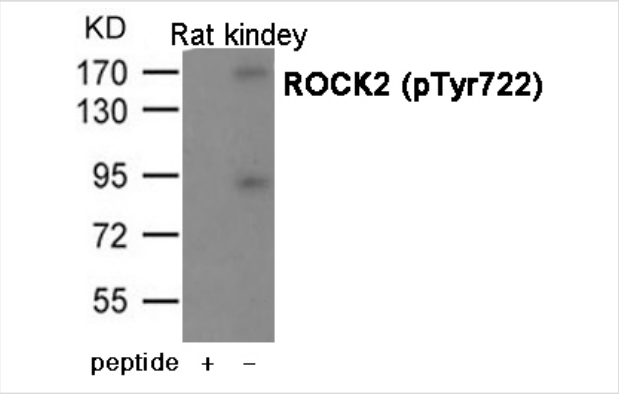
Product Name	ROCK2 (Phospho-Tyr722) antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of ROCK2 only when phosphorylated at Tyrosine 722.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Tyrosine 722 (K-I-Y(p)-E-S) derived from Human ROCK2.
Target Name	ROCK2
Modification	Phospho
Other Names	ROCK-II
Accession No.	Swiss-Prot#: O75116; NCBI Gene#: 19878; NCBI Protein#: XP_005246247.1
Uniprot	O75116
GeneID	9475;
SDS-PAGE MW	160kd
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C/1 year

Application Details

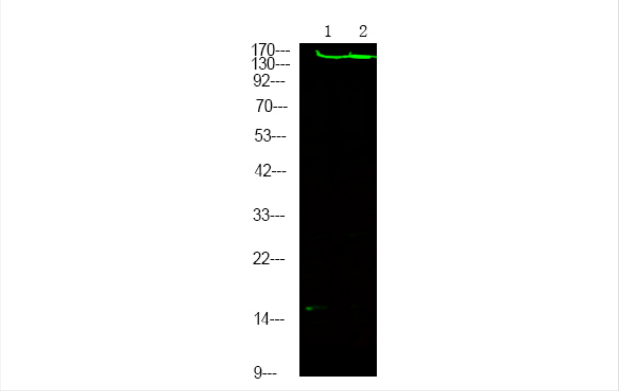
Predicted MW: 160kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Rat kindey using ROCK2 (Phospho-Tyr722) antibody #12068.The lane on the left is treated with the antigen-specific peptide.



Western Blot analysis of lysates of mouse spleen, using primary antibody at 1:1000 dilution.

Background

Protein kinase which is a key regulator of actin cytoskeleton and cell polarity. Involved in regulation of smooth muscle contraction, actin cytoskeleton organization, stress fiber and focal adhesion formation, neurite retraction, cell adhesion and motility via phosphorylation of ADD1, BRCA2, CNN1, EZR, DPYSL2, EP300, MSN, MYL9/MLC2, NPM1, RDX, PPP1R12A and VIM. Phosphorylates SORL1 and IRF4. Acts as a negative regulator of VEGF-induced angiogenic endothelial cell activation. Positively regulates the activation of p42/MAPK1-p44/MAPK3 and of p90RSK/RPS6KA1 during myogenic differentiation. Plays an important role in the timely initiation of centrosome duplication. Inhibits keratinocyte terminal differentiation. May regulate closure of the eyelids and ventral body wall through organization of actomyosin bundles. Plays a critical role in the regulation of spine and synaptic properties in the hippocampus.

Note: This product is for in vitro research use only