

AB-PK799

ROCK2-pY722 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase ROCK2 (ROKa)



KINEXUS

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Target Protein

Name Long:	Rho-associated protein kinase 2
Alias:	KIAA0619; Kinase ROCK2; P164 ROCK-2; RhoA-binding serine/threonine kinase alpha; Rho-associated protein kinase 2; Rho-associated, coiled-coil containing protein kinase 2; ROCK-II; ROK-alpha
UniProt ID:	O75116
Sequence Predicted Mass (KDa):	160.900 (1388 AA; O75116)
Observed SDS-PAGE Mass (KDa):	160-180

Immunogen

Antibody Immunogen Source:	Human ROCK2 (ROKa) sequence peptide Cat. No.: PE-04ALB99
Antibody Immunogen Sequence:	NKI(pY)ESI(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N719 to I725; In the region between the kinase catalytic and Rho_Binding domains. The major site of phosphorylation in ROCK2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-722

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
Antibody Amount:	25 µg
Antibody Concentration:	0.5 mg/ml
Lot Number:	141107
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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Applications

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other mammals
Antibody Positive Controls:	Very strong immunoreactivity with immunogen peptide on dot blots.
Overall Antibody Specificity:	Low-high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in Jurkat MCF7 cells. In HepG2 cells, a very high background was noted.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit www.kinexusproducts.ca or contact us at 1-866-KINEXUS(546-3987)