

AB-PK512

ACK1-pY518 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase ACK1 (TNK2)



KINEXUS

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Target Protein

Name Long:	Activated CDC42 kinase 1
Alias:	ACK; Activated Cdc42-associated kinase 1; Activated p21cdc42Hs kinase; Activated p21cdc42Hs kinase 1; Kinase ACK1; Non-receptor protein tyrosine kinase Ack; p21cdc42Hs; TNK2; Tyrosine kinase, non-receptor, 2; FLJ44758; FLJ45547; ENSG00000061938
UniProt ID:	Q07912
Sequence Predicted Mass (KDa):	119.349 (1086 AA; Q07912-3); 114.569 (1038 AA; Q07912); 60.062 (528 AA; Q07912-2)
Observed SDS-PAGE Mass (KDa):	120-130

Immunogen

Antibody Immunogen Source:	Human ACK1 (TNK2) sequence peptide Cat. No.: PE-04AHK99
Antibody Immunogen Sequence:	KPT(pY)DPV(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K515 to V521; Just after the GTPase-binding domain. The major site of phosphorylation of ACK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-518

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:	1 mg/ml
Lot Number:	150205
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:	Medium immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Weak immunoreactivity of a target-sized protein by Western blotting in HEK-293 cells.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Weak cross-reactivity with a ~27 KDa protein in HEK-293 and HeLa cells.

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)