

AB-PK748

PAK1-pS144 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase PAK1 (PAKa)



KINEXUS

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Target Protein

Name Long:	p21-activated kinase 1 alpha; Protein-serine/threonine kinase PAK 1
Alias:	ADRB2; Alpha-PAK; CDC42,RAC effector kinase PAK-A; CDC42/RAC effector kinase PAK-A; Kinase PAK1; MUK2; P21 protein (Cdc42/Rac)-activated kinase 1; P65-PAK; STE20, yeast; P68-PAK; PAK 1; PAK-1; PAKA; Protein kinase MUK2; PAKalpha; MGC130000; MGC130001; CCDS8250.1; Q13153; ENSG00000149269
UniProt ID:	Q13153
Sequence Predicted Mass (KDa):	61.632 (553 AA; Q13153-2); 60.647 (545 AA; Q13153)
Observed SDS-PAGE Mass (KDa):	60-67

Immunogen

Antibody Immunogen Source:	Human PAK1 (PAKa) sequence peptide Cat. No.: PE-04AOI95
Antibody Immunogen Sequence:	KYM(pS)FTD(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues K141 to D147; Just after the PBD. The major site of phosphorylation of PAK1.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-144

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:	150305
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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:	Very high selectivity
Antibody Cross Reactivities:	Almost no significant cross-reactivities detected in HepG2 and Jurkat cells; in Jurkat cells, phenylarsine oxide (PAO) decreases 110 + 75 + 65 KDa proteins.

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)