

AB-PK737

NuaK1-pT211 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase NuaK1 (ARK5)/Nuak2



KINEXUS

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Target Protein

Name Long:	NUAK family SNF1-like kinase 1; AMPK-related protein kinase 5
Alias:	AMP-activated protein kinase family member 5; ARK5; KIAA053; KIAA0537; Kinase NuaK1; NUAK family, SNF1-like kinase, 1; NUAK2; Probable KIAA0537; ENSG00000074590
UniProt ID:	O60285
Sequence Predicted Mass (KDa):	74.305 (661 AA; O60285); 23.824 (208 AA; O60285-2)
Observed SDS-PAGE Mass (KDa):	70-76

Immunogen

Antibody Immunogen Source:	Human NuaK1 (ARK5)/Nuak2 sequence peptide Cat. No.: PE-04AKS99
Antibody Immunogen Sequence:	FLQ(pT)FCG(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues F208 to G214; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Thr-211

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 multipеп peptide 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:	171027
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.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	No significant cross-reactive proteins detected in HepG2 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)