

AB-PK918

AMPK α 1-pT490 Antibody

Phosphosite-specific rabbit polyclonal antibody for AMPK α 1 (PRKAA1). This phosphothreonine-site antibody is specific for phosphothreonine in the phosphosite.

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Target Protein

Protein Name Long:	5'-AMP-activated protein kinase catalytic subunit alpha-1
Protein Alias:	5'-AMP-activated protein kinase, catalytic alpha-1 chain; AAPK1; Acetyl-CoA carboxylase kinase; AMPK alpha-1 chain; AMPK, alpha, 1; AMPK-alpha1; HMG-CoA reductase kinase; HMG-CoA reductase kinase; PRKAA1; Protein kinase, AMP-activated, alpha 1 catalytic subunit; MGC33776; MGC57364; CCDS3932.1; ENSG00000132356
UniProt ID:	Q13131
Protein Molecular Mass:	65,523 Da (574 AA; Q13131-2); 64,009 Da (559 AA; Q13131)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human AMPK α 1
Antibody Immunogen Sequence:	C(β A)GTA(pT)PQRS
Antibody Immunogen Description:	Corresponds to amino acid residues G487 to S494. The effect of phosphorylation of T490 is unclear, but may be activating. Phosphorylation indirectly induced transcription and translation. This is a major <i>in vivo</i> phosphorylation sites in AMPK1 α 1 (\geq 86 reports from high throughput mass spectrometry studies in PhosphoSitePlus). AMPK α 1 is known to be phosphorylated at this site <i>in vitro</i> by GSK3 α , and GSK3 β .
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep 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 these animals 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.
Amount:	25 μ g
Antibody Concentration:	0.9 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	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.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Rhesus Macaque Dog Rat Mouse Zebra fish

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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987