

AB-PK522

AMPKa2-pS377 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase AMPKa2 (PRKAA2)



KINEXUS

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Target Protein

Name Long:	5'-AMP-activated protein kinase catalytic subunit alpha-2
Alias:	AAPK2; AMPK alpha-2 chain; Kinase AMPK-alpha2; AMPK2; PRKAA; PRKAA2 ENSG00000162409
UniProt ID:	P54646
Sequence Predicted Mass (KDa):	62.320 (552 AA; P54646)
Observed SDS-PAGE Mass (KDa):	60-65

Immunogen

Antibody Immunogen Source:	Human AMPKa2 (PRKAA2) sequence peptide Cat. No.: PE-04AHL80
Antibody Immunogen Sequence:	IAD(pS)PKARC
Location in Target:	Corresponds to amino acid residues I374 to C382; In the C-terminal half of the protein after the kinase catalytic domain. This is the major in vivo phosphorylation sites in AMPKa2.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Ser-377

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:	141024
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:	Medium selectivity
Antibody Cross Reactivities:	Multiple cross-reactive proteins were detected in MCF7 cells, but A431 cells and HeLa cells and sea star oocytes showed no significant cross-reactivities.

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)