

AB-PK875

CaMK2 α -pY230 Antibody

Phosphosite-specific rabbit polyclonal antibody for CaMK2 α (CaMKII). This phosphotyrosine-site antibody also cross-reacts with phosphothreonine and phosphoserine substitutions of the phosphosite.

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Target Protein

Protein Name Long:	Calcium/calmodulin-dependent protein-serine kinase 2 alpha
Protein Alias:	Calcium/calmodulin-dependent protein kinase II alpha; Calcium/calmodulin-dependent protein kinase II alpha-B subunit; Calcium/calmodulin-dependent protein kinase type II alpha chain; CaM kinase II alpha subunit; CaMK2-alpha; CaMKA; CaMK-II alpha subunit; CaMKII-alpha; CaMKIINalpha; Kinase CaMK2-alpha; CaM-kinase II alpha chain; EC 2.7.11.17; KCC2A; KIAA0968
UniProt ID:	Q9UQM7
Protein Molecular Mass:	55,320 Da (489 AA; Q9UQM7-2); 54,088 Da (478 AA; Q9UQM7)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human CaMK2A
Antibody Immunogen Sequence:	AGA(pY)DFP(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues A227 to P233. The effect of Y230 phosphorylation is unknown. It appears to be the third most commonly observed <i>in vivo</i> phosphosite in CaMK2a by mass spectrometry studies (~28 reports). Phosphorylation of Y230 in rat brain appears to be induced by 15 min ischemia treatment.
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 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 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:	0.75 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 Chimpanzee Rhesus Macaque Dog Rat Mouse Platypus Chicken Frog Zebra fish Fruit fly

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