

AB-PK874

CAMK1 α -pY235 Antibody

Phosphosite-specific rabbit polyclonal antibody for CaMK1 α (CAMK1). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Calcium/calmodulin-dependent protein-serine kinase 1 alpha
Protein Alias:	Calcium/calmodulin-dependent protein kinase I; Calcium/calmodulin-dependent protein kinase type I; CAM kinase I; CAMK1; CaMK1-alpha; CaMKI; KCC1; KCC1A; Kinase CaMK1-alpha
UniProt ID:	Q14012
Protein Molecular Mass:	41,337 Da (370 AA; Q14012)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human CAMK1a
Antibody Immunogen Sequence:	KAE(pY)EFD(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues K232 to D238. The effect of Y235 phosphorylation is unclear. This is one of the minor <i>in vivo</i> phosphorylation sites in CaMK1a (≥ 2 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus).
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:	1 mg/ml
Lot Numbers:	
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

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