

AB-PK909

PKC α -pT638 Antibody

Phosphosite-specific rabbit polyclonal antibody for PKC α (PRKCA). This phosphothreonine-site antibody also weakly cross-reacts with a phosphoserine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Protein-serine kinase C alpha
Protein Alias:	AAG6; Kinase PKC-alpha; KPCA; PKC III; PKC-A; PKC-alpha; PKC-III; PRKACA; Protein kinase C, alpha; Protein kinase C, alpha type; MGC129900; MGC129901; CCDS11664.1; P17252; ENSG00000154229
UniProt ID:	P17252
Protein Molecular Mass:	76,750 Da (672 AA; P17252)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PKCa
Antibody Immunogen Sequence:	PVL(pT)PPD(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues P635 to D641. T638 phosphorylation of this site is not essential for catalytic activity, but it protects against dephosphorylation of the T497 site, and regulates its intracellular location. This is a minor <i>in vivo</i> phosphorylation site in PKCa (≥ 15 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PKCa is known to be phosphorylated at this site <i>in vitro</i> by ERK1 (MAPK3), and ERK2 (MAPK1).
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:	0.3 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 $+4^{\circ}\text{C}$ 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 Dog Rat Mouse Platypus Chicken Frog

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