

# AB-PK944

## PKC $\alpha$ -pS226+pT228 Antibody

Phosphosite-specific rabbit polyclonal antibody for PKC $\alpha$  (PRKCA)



**KINEXUS**

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### Target Protein

<b>Protein Name Long:</b>	Protein-serine kinase C alpha
<b>Protein Alias:</b>	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
<b>UniProt ID:</b>	P17252
<b>Protein Molecular Mass:</b>	76,750 Da (672 AA; P17252)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human PKC $\alpha$
<b>Antibody Immunogen Sequence:</b>	WNE(pS)F(pT)FKL( $\beta$ A)C
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues W223 to L231. S226 and T228 phosphorylation is activatory. These are major <i>in vivo</i> phosphorylation sites in PINK1 ( $\geq 85$ and $\geq 17$ reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PKC $\alpha$ is known to be phosphorylated <i>in vitro</i> at S226 and T228: byMST2 (CLIK1, STK3).
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	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.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	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.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Rhesus Macaque   Rat   Mouse   Platypus   Chicken   Frog   Zebra fish   Fruit fly   Nematode worm

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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