

AB-PK899

CDK5-pS159 Antibody

Phosphosite-specific rabbit polyclonal antibody for CDK5. This phosphoserine-site antibody also cross-reacts with phosphothreonine, threonine and glutamic acid substitutions, and weakly with

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Target Protein

Protein Name Long:	Cyclin-dependent protein-serine kinase 5
Protein Alias:	Cell division protein kinase 5; CRK6; PSSALRE; TAU protein kinase II; TPKII; ENSG00000164885
UniProt ID:	Q00535
Protein Molecular Mass:	33,304 Da (292 AA; Q00535); 29,544 Da (260 AA; Q00535-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human CDK5
Antibody Immunogen Sequence:	RSY(pS)AEV(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R156 to V162. S159 phosphorylation is stimulatory for phosphotransferase activity. This phosphosite is located in the kinase activation loop between catalytic subdomains VII and VIII. This is one of the minor <i>in vivo</i> phosphorylation sites in CDK5. CDK5 is known to be phosphorylated at this site <i>in vitro</i> by CK1a.
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 µg
Antibody Concentration:	0.5 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 Dog Rat Mouse Chicken Frog Zebra fish Fruit fly Honey bee Sea urchin

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

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