

AB-PK882

GSK3 α -pY279 Antibody

Phosphosite-specific rabbit polyclonal antibody for GSK3 α . This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Glycogen synthase-serine kinase 3 alpha
Protein Alias:	DKFZp686D0638; Factor A; Glycogen synthase kinase 3 alpha; GSK-3 alpha; GSK3-alpha; Kinase GSK3-alpha
UniProt ID:	P49840
Protein Molecular Mass:	50,981 Da (483 AA; P49840)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human GSK3a
Antibody Immunogen Sequence:	PNVS(pY)IAS(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues P275 to S282 (C281A). Y279 phosphorylation stimulates phosphotransferase activity, promotes nuclear localization, and regulates cell growth, apoptosis, transcription, protein stability, and molecular association. This phosphosite is located in the kinase activation loop between catalytic subdomains VII and VIII. This is the major <i>in vivo</i> phosphorylation sites in GSK3a with \geq 4312 mass spectrometry reports recorded in PhosphoSitePlus. GSK3a is known to be phosphorylated at this site <i>in vitro</i> by GSK3a, MEK1 (MAP2K1), and MEK2 (MAP2K2).
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°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 Rat Mouse Frog 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