

AB-PN882

KIF5A-pS176 Antibody

Phosphosite-specific rabbit polyclonal antibody for KIF5A



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Target Protein

Protein Name Long:	Kinesin heavy chain isoform 5A
Protein Alias:	Kinesin heavy chain 5A; Kinesin heavy chain neuron-specific 1; Neuronal kinesin heavy chain; NKHC
UniProt ID:	Q12840
Protein Molecular Mass:	117,378 Da (1,032 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human KIF5A
Antibody Immunogen Sequence:	C(βA)RFVS(pS)PEE
Antibody Immunogen Description:	Corresponds to amino acid residues R172 to E179. The effect of S176 phosphorylation is unclear. There are no reports of <i>in vivo</i> phosphorylation of this site in KIF5A based on 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 multipеп peptide 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:	0.45 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 Dog Rat Mouse 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.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987