

AB-PN933

AKAP12-pS696 Antibody

Phosphosite-specific rabbit polyclonal antibody for AKAP12. This phosphoserine-site antibody also cross-reacts with phosphothreonine and phosphotyrosine substitutions and weakly with serine and threonine

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Target Protein

Protein Name Long:	A-kinase anchor protein 12
Protein Alias:	A kinase (PRKA) anchor protein 12; AKA12; AKAP250; A-kinase anchor protein 250 kDa; Gravin; Myasthenia gravis autoantigen; Myasthenia gravis autoantigen gravin; RP11-351K16.7-001; SSeCKS
UniProt ID:	Q02952
Protein Molecular Mass:	191,483 Da (1782 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human AKAP12
Antibody Immunogen Sequence:	CARRG(pS)SSDE
Antibody Immunogen Description:	Corresponds to amino acid residues A692 to E700. Phosphorylation of S696 inhibits receptor desensitization. AKAP12 is known to be phosphorylated at this site <i>in vitro</i> by PKACA .
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 Dog Rat Mouse

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