

AB-PN837

Nav1.2-pS568 Antibody

Phosphosite-specific rabbit polyclonal antibody for Nav1.2 (SCN2A)



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Target Protein

Protein Name Long:	Sodium channel protein type 2 subunit alpha
Protein Alias:	CIN2; HBSC II; HBSCI; HBSCII; NAC2; Nav1.2; SCN2A1; SCN2A2; Sodium channel protein brain II subunit alpha; Sodium channel protein type II subunit alpha; Sodium channel protein, brain II alpha subunit; Sodium channel type II alpha subunit; Sodium channel, voltage-gated, type II, alpha subunit; Voltage-gated sodium channel subunit alpha Nav1.2
UniProt ID:	Q99250
Protein Molecular Mass:	227,975 Da (2,005 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Nav1.2
Antibody Immunogen Sequence:	CSLF(pS)PRR
Antibody Immunogen Description:	Corresponds to amino acid residues S565 to R571. The effect of S568 phosphorylation is unknown. This is the one of the prevalent phosphosite in Nav1.2 (SCN2A) by mass spectrometry (≥ 6 reports 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 multi-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 μ g
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ 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 Dog Rat Mouse Platypus Chicken

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