

AB-PN945

CTNNB1-pS552 Antibody

Phosphosite-specific rabbit polyclonal antibody for CTNNB1 (Catenin-b). This phosphoserine-site antibody also cross-reacts with phosphothreonine and glutamic acid substitutions in the phosphosite.

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Target Protein

Protein Name Long:	Catenin (cadherin-associated protein) beta 1
Protein Alias:	Beta-catenin; Catenin, beta; CATNB; CTNB1; CTNNB
UniProt ID:	P35222
Protein Molecular Mass:	85,497 Da (781 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human CTNNB1
Antibody Immunogen Sequence:	QRRT(pS)MGGC
Antibody Immunogen Description:	Corresponds to amino acid residues Q548 to G555. S552 phosphorylation has been reported to both increase and decrease activity. This is one of the major sites of <i>in vivo</i> phosphorylation with ≥ 73 mass spectrometry reports recorded in PhosphoSitePlus. CTNNB1 is known to be phosphorylated at this site <i>in vitro</i> by Akt1, and Akt2.
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 μ g
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 Rat Mouse Platypus Chicken Frog Zebra fish Fruit fly 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