

AB-PN816

CTNNB1-pS33+pS37 Antibody

Phosphosite-specific rabbit polyclonal antibody for CTNNB1 (Catenin-b)



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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:	SYLD(pS)GIH(pS)GAC
Antibody Immunogen Description:	Corresponds to amino acid residues S518 to K525. S33+S37+T41+S45 phosphorylation induces binding to CBLL1. S33 phosphorylation also inhibits transcriptional activity. S45 phosphorylation alters cellular adhesion and also induces interaction with CDH1 and axin 1. These are four of the major <i>in vivo</i> phosphorylation sites in CTNNB1 (≥ 5 , ≥ 15 , ≥ 3 and ≥ 5 reports, respectively, from high throughput mass spectrometry studies recorded in PhosphoSitePlus). CTNNB1 is known to be phosphorylated <i>in vitro</i> at S33 by CDK2, GSK3a, GSK3b, and IKKa (CHUK, IKBKA), at S37 by CDK2, GSK3a, GSK3b, and IKKa (CHUK, IKBKA), at T41 by CDK2, CK1e1 (CSNK1E), GSK3a, GSK3b, and IKKa (CHUK, IKBKA), and at S45 by CDK2, CK1a1 (CSNK1A1), CK1d1 (CSNK1D), CK1e1 (CSNK1E), GSK3b, IKKa (CHUK, IKBKA), and PKACa (PRKACA).
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% 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 Platypus Chicken Frog Zebra fish Fruit fly Honey bee

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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