

AB-PP545

PPP1R14B-pT57 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP1R14B (PHI-1). This phosphothreonine-site antibody also cross-reacts with a phosphoserine substitution in the phosphosite.

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Target Protein

Protein Name Long:	Protein phosphatase 1 regulatory subunit 14B
Protein Alias:	PHI-1; Phospholipase C beta 3 neighbouring gene protein; Phospholipase C beta-3 neighboring gene protein; PLCB3N; PNG; PP14B; Protein phosphatase 1, regulatory (inhibitor) subunit 14B; SOM172
UniProt ID:	Q96C90
Protein Molecular Mass:	15,911 Da (147 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPP1R14B
Antibody Immunogen Sequence:	GKV(pT)VKY(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues G54 to Y60. T57 phosphorylation stimulates phosphatase inhibitory activity. This is a minor <i>in vivo</i> phosphorylation site in PPP1R14B based on ≥5 mass spectrometry reports recorded in PhosphoSitePlus. PPP1R14B is known to be phosphorylated at this site <i>in vitro</i> by ILK, PKCa (PRKCA), PKCd (PRKCD), and ROCK2 (ROK-alpha).
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 multipепptide 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:	0.6 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 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