

AB-PP504

PPP2CA-pY307 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP2CA (PP2A/Ca). This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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Target Protein

Protein Name Long:	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform EC 3.1.3.16; PP2AA; PP2A-alpha; PP2Calpha; Protein phosphatase 2 (formerly 2A) catalytic subunit, alpha isoform; Replication protein C; RP-C;
Protein Alias:	Serine/threonine protein phosphatase 2A, catalytic subunit, alpha isoform
UniProt ID:	P67775
Protein Molecular Mass:	35,594 Da (309 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPP2CA
Antibody Immunogen Sequence:	C(βA)TPD(pY)FI-cooh
Antibody Immunogen Description:	Corresponds to amino acid residues T304 to I309. Y307 phosphorylation has been separately reported to both stimulate and inhibits phosphatase activity. It regulates cell growth, apoptosis, cytoskeletal reorganization, intracellular location, methylation and molecular association, including inducing interaction with LCMT1. This phosphorylation site has only been reported by mass spectrometry once in PhosphoSitePlus. This particular human phosphosite is highly conserved in vertebrates and also found in yeast and mould. PPP2CA is known to be phosphorylated at this site <i>in vitro</i> by EGFR, InsR, Lck, Lyn, and Src.
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:	0.7 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 Cow Dog Pig Rat Mouse Platypus Chicken Fruit fly Honey bee Sea urchin Thale cress Budding yeast Red bread mold

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