AB-PP542

PPP1CA-pY306 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP1CA (PP1/Ca). This phosphotyrosine-site antibody also cross-reacts with a phosphothreonine substitution of the phosphosite.

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
Protein Alias:	EC 3.1.3.16; PP1A; PP-1A; PPP1A; Protein phosphatase 1, catalytic subunit, alpha isoform; Serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit; Serine/threonine protein phosphatase PP1-alpha 1, catalytic subunit
UniProt ID:	P62136
Protein Molecular Mass:	37,512 Da (330 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPP1CA
Antibody Immunogen Sequence:	NKGK(pY)GQF(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues N302 to F309. The effect of Y306 phosphorylation is unclear. This is a major *in vivo* phosphorylation site in PPP1CA based on ≥109 mass spectrometry 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 multipep 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:	0.45 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 | Rhesus macaque | Rat | Mouse

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