

AB-PP548

PPP1R1A-pT35 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP1R1A (I-1; Inhibitor-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 1A
Protein Alias:	I-1; Inhibitor 1; IPP1; PPR1A
UniProt ID:	Q13522
Protein Molecular Mass:	18,939 Da (171 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPP1R1A
Antibody Immunogen Sequence:	CRRRP(pT)PAT
Antibody Immunogen Description:	Corresponds to amino acid residues R31 to T38. T35 phosphorylation stimulates phosphatase activity through inhibition of this inhibitor. This is a minor <i>in vivo</i> phosphorylation site in PPP1R1A based on ≥ 4 mass spectrometry reports recorded in PhosphoSitePlus. PPP1R1A is known to be phosphorylated at this site <i>in vitro</i> by 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 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:	0.5 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 $+4^{\circ}\text{C}$ 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 Dog Rat Mouse Frog Zebra fish

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