

AB-PP503

PPP1R12B-pT646 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP1R12B (MYPT2).

This phosphothreonine-site antibody also cross-reacts with a phosphoserine substitution in 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:	Protein phosphatase 1 regulatory subunit 12B
Protein Alias:	Myosin phosphatase regulatory subunit; Myosin phosphatase target 2; Myosin phosphatase-targeting 2; Myosin phosphatase-targeting subunit 2; MYPT2
UniProt ID:	O60237
Protein Molecular Mass:	110,404 Da (982 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPP1R12B
Antibody Immunogen Sequence:	RRS(pT)QGV(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R643 to V649. T646 phosphorylation inhibits activity. This is a minor site of <i>in vivo</i> phosphorylation of PPP1R12B (≥9 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This human phosphosite is conserved in mammals and found in the rat. PPP1R12B is known to be phosphorylated at this site <i>in vitro</i> by ROCK1 (ROK-beta).
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:	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 Rhesus macaque Dog Rat Mouse

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