

AB-PP551

PPP2R5D-pY580 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPP2R5D (2A5D; B56D). This phosphotyrosine-site antibody also weakly cross-reacts with phosphothreonine and phosphoserine substitutions of the phosphosite.

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Target Protein

Protein Name Long:	Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform
Protein Alias:	2A5D; B56D; PP2A B subunit B' delta isoform; PP2A B subunit B56 delta isoform; PP2A B subunit PR61 delta isoform; PP2A B subunit R5 delta isoform; Serine/threonine protein phosphatase 2A, 56 kDa regulatory subunit delta isoform
UniProt ID:	Q14738
Protein Molecular Mass:	69,992 Da (602 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPP2R5D
Antibody Immunogen Sequence:	PQDV(pY)TIKAC
Antibody Immunogen Description:	Corresponds to amino acid residues P576 to A584. The effect of phosphorylation of Y580 is unclear, but it is a major <i>in vivo</i> site of phosphorylation (≥95 reports by mass spectrometry 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:	0.5 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°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 Platypus Zebra fish Honey bee

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

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