

AB-PP508

PPPM1A-pY362 Antibody

Phosphosite-specific rabbit polyclonal antibody for PPPM1A (PP2Ca; PPM1A)/PPPM1B (PP2Cb; PPM1B). This phosphotyrosine-site antibody also weakly cross-reacts with a phosphoserine substitution of the

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Target Protein

Protein Name Long:	Protein phosphatase 1A; Protein phosphatase 2C isoform alpha
Protein Alias:	EC 3.1.3.16; IA; P2CA; PP2CA; PP2C-alpha; PPM1A
UniProt ID:	P35813
Protein Molecular Mass:	42,448 Da (382 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PPPM1A
Antibody Immunogen Sequence:	EAV(pY)NRL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues E359 to L365. The effect of Y362 phosphorylation is unclear. This is one of the major sites of <i>in vivo</i> phosphorylation of PP2Ca based on ≥9 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 multi-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:	0.8 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 Dog Rat Mouse Platypus Chicken Frog Zebra fish

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

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