

AB-PP536

PTPN12-pS435 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN12 (PTP-PEST; PTPG1). This phosphoserine-site antibody also cross-reacts with phosphothreonine, phosphotyrosine and serine substitutions in the

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Target Protein

Protein Name Long:	Protein-tyrosine phosphatase, non-receptor type 12
Protein Alias:	EC 3.1.3.48; Protein-tyrosine phosphatase G1; PTN12; PTNC; PTPG1; PTP-PEST
UniProt ID:	Q05209
Protein Molecular Mass:	88,120 Da (780 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PTPN12
Antibody Immunogen Sequence:	RNL(pS)FEI(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R432 to I438. The effect of PTPN12 S435 phosphorylation is unclear. This is the major site of <i>in vivo</i> phosphorylation of PTPN12 (≥437 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PTPN12 is known to be phosphorylated at this site <i>in vitro</i> by PKAc (PRKACA), and PKCa (PRKCA).
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 Dog Rat Mouse Platypus Chicken

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

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