

AB-PP519

PTPN3-pS357+pS359 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN3 (PTP-H1)



KINEXUS

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Target Protein

Protein Name Long:	Tyrosine-protein phosphatase non-receptor type 3
Protein Alias:	EC 3.1.3.48; Protein tyrosine phosphatase, non-receptor type 3; Protein-tyrosine phosphatase H1; PTN3; PTPH1; PTP-H1
UniProt ID:	P26045
Protein Molecular Mass:	104,030 Da (913 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human PTPN3
Antibody Immunogen Sequence:	CAMRR(pS)L(pS)VEH
Antibody Immunogen Description:	Corresponds to amino acid residues A353 to H362. S359 phosphorylation induces interaction with 14-3-3. This is a major site of <i>in vivo</i> phosphorylation of PTPN3 (≥ 26 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). PTPN3 is known to be phosphorylated <i>in vitro</i> at S359 by TAK1 (MAP3K7).
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 μ g
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 $+4^{\circ}\text{C}$ 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 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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