

AB-PP513

PTPN12-pS39 Antibody

Phosphosite-specific rabbit polyclonal antibody for PTPN12 (PTP-PEST; PTPG1). This phosphoserine-site antibody also cross-reacts with a phosphothreonine substitution in the phosphosite.

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Target Protein

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|--------------------------------|--|
| 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

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| Antibody Immunogen Source: | Synthetic phosphopeptide patterned after human PTPN12 |
| Antibody Immunogen Sequence: | RRL(pS)TKY(βA)C |
| Antibody Immunogen Description: | Corresponds to amino acid residues R36 to Y42. S39 phosphorylation inhibits phosphatase activity. This is one of the minor sites of <i>in vivo</i> phosphorylation of PTPN12 (≥15 reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). This particular human phosphosite is highly conserved in vertebrates and also found in the sea urchin. PTPN12 is known to be phosphorylated at this site <i>in vitro</i> by PKACA (PRKACA), and PKCa (PRKCA). |
| Antibody Target Type: | Phosphosite-specific |

Production

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| 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

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| Product Use: | Western blotting Antibody microarray |
| Antibody Dilution Recommended: | 2 µg/ml for immunoblotting |
| Antibody Species Reactivity: | Human Chimpanzee Rhesus macaque Rat Mouse Chicken |

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