10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PTPN12 Blocking Peptide (C-Term)

Synthetic peptide
Catalog # BP21931b

Specification

PTPN12 Blocking Peptide (C-Term) - Product Information

Primary Accession Q05209

PTPN12 Blocking Peptide (C-Term) - Additional Information

Gene ID 5782

Other Names
Tyrosine-protein phosphatase non-receptor type 12, 3.1.3.48, PTP-PEST, Protein-tyrosine phosphatase G1, PTPG1, PTPN12

Target/Specificity
The synthetic peptide sequence is selected from aa 744-756 of HUMAN PTPN12

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTPN12 Blocking Peptide (C-Term) - Protein Information

Name PTPN12

Function
Dephosphorylates a range of proteins, and thereby regulates cellular signaling cascades (PubMed:18559503). Dephosphorylates cellular tyrosine kinases, such as ERBB2 and PTK2B/PYK2, and thereby regulates signaling via ERBB2 and PTK2B/PYK2 (PubMed:17329398, PubMed:27134172). Selectively dephosphorylates ERBB2 phosphorylated at 'Tyr-1112', 'Tyr-1196', and/or 'Tyr-1248' (PubMed:27134172).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P35831}. Cell junction, focal adhesion. Cell projection, podosome {ECO:0000250|UniProtKB:P35831}. Note=Partial translocation to focal adhesion sites may be mediated by interaction with SORBS2.

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PTPN12 Blocking Peptide (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PTPN12 Blocking Peptide (C-Term) - Images

PTPN12 Blocking Peptide (C-Term) - Background

Dephosphorylates cellular tyrosine kinases, including PTK2B/PYK2, and thereby regulates signaling via PTK2B/PYK2.

PTPN12 Blocking Peptide (C-Term) - References

Takekawa M.,et al.Biochem. Biophys. Res. Commun. 189:1223-1230(1992).
Yang Q.,et al.J. Biol. Chem. 268:6622-6628(1993).
Yang Q.,et al.J. Biol. Chem. 268:17650-17650(1993).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.