

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:<a href="http://www.uniprot.org/citations/18559503"

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) - ReferencesTakekawa 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.

target="_blank">18559503).
Dephosphorylates cellular tyrosine kinases,
such as ERBB2 and PTK2B/PYK2, and
thereby regulates signaling via ERBB2 and
PTK2B/PYK2 (PubMed:<a href="http://www.
uniprot.org/citations/17329398"
target="_blank">17329398,
PubMed:<a href="http://www.uniprot.org/ci
tations/27134172"
target="_blank">27134172).
Selectively dephosphorylates ERBB2
phosphorylated at 'Tyr-1112', 'Tyr-1196',
and/or 'Tyr-1248' (PubMed:<a href="http://
www.uniprot.org/citations/27134172"
target="_blank">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.

PTPN12 Blocking Peptide (C-Term) - Protocols

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

- [Blocking Peptides](#)