

PEX Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16834b**Specification**

PEX Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P78562](#)**PEX Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 5251**Other Names**

Phosphate-regulating neutral endopeptidase, 3424-, Metalloendopeptidase homolog PEX, Vitamin D-resistant hypophosphatemic rickets protein, X-linked hypophosphatemia protein, HYP, PHEX, PEX

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.

PEX Antibody (C-term) Blocking Peptide - Protein Information**Name** PHEX**Synonyms** PEX**Function**

Peptidase that cleaves SIBLING (small integrin-binding ligand, N-linked glycoprotein)-derived ASARM peptides, thus regulating their biological activity (PubMed: [9593714](http://www.uniprot.org/citations/9593714), PubMed: [15664000](http://www.uniprot.org/citations/15664000), PubMed: [18162525](http://www.uniprot.org/citations/18162525), PubMed: [18597632](http://www.uniprot.org/citations/18597632)). Cleaves ASARM peptides between Ser and Glu or Asp residues (PubMed: [18597632](http://www.uniprot.org/citations/18597632)). Regulates osteogenic cell differentiation and bone mineralization through the cleavage of the MEPE-derived ASARM peptide (PubMed: [18597632](http://www.uniprot.org/citations/18597632)). Promotes dentin mineralization and renal phosphate reabsorption by cleaving DMP1- and MEPE-derived ASARM peptides (PubMed: [18597632](http://www.uniprot.org/citations/18597632), PubMed: [18162525](http://www.uniprot.org/citations/18162525)). Inhibits the

cleavage of MEPE by CTSB/cathepsin B thus preventing MEPE degradation (PubMed:12220505).

Cellular Location

Cell membrane; Single-pass type II membrane protein

Tissue Location

Specifically expressed in ovary (PubMed:9070861). Expressed at low levels in kidney (PubMed:9070861)

PHEX Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PHEX Antibody (C-term) Blocking Peptide - Images**PHEX Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is a transmembrane endopeptidase that belongs to the type II integral membrane zinc-dependent endopeptidase family. The protein is thought to be involved in bone and dentin mineralization and renal phosphate absorption. Mutations in this gene cause X-linked hypophosphatemic rickets.

PHEX Antibody (C-term) Blocking Peptide - References

Majewski, P.M., et al. J. Biol. Chem. 285(45):34828-34838(2010) Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :Clausmeyer, S., et al. Calcif. Tissue Int. 85(3):211-220(2009) Gaucher, C., et al. Hum. Genet. 125(4):401-411(2009) Strom, T.M., et al. Curr. Opin. Nephrol. Hypertens. 17(4):357-362(2008)