

PHEX Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16834b

Specification

PHEX Antibody (C-term) - Product Information

Application WB,E
Primary Accession P78562

Other Accession <u>P70669</u>, <u>NP 000435.3</u>

Reactivity
Predicted
Host
Clonality
Isotype
Antigen Region

Human
Mouse
Rabbit
Polyclonal
Rabbit IgG
567-595

PHEX Antibody (C-term) - 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

Target/Specificity

This PHEX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 567-595 amino acids from the C-terminal region of human PHEX.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PHEX Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PHEX Antibody (C-term) - 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:<u>9593714</u>, PubMed:<u>15664000</u>, PubMed:<u>18162525</u>, PubMed:<u>18597632</u>). Cleaves ASARM peptides between Ser and Glu or Asp residues (PubMed:<u>18597632</u>). Regulates osteogenic cell differentiation and bone mineralization through the cleavage of the MEPE-derived ASARM peptide (PubMed:<u>18597632</u>). Promotes dentin mineralization and renal phosphate reabsorption by cleaving DMP1- and MEPE-derived ASARM peptides (PubMed:<u>18597632</u>, PubMed:<u>18162525</u>). Inhibits the cleavage of MEPE by CTSB/cathepsin B thus preventing MEPE degradation (PubMed:<u>12220505</u>).

Cellular Location

Cell membrane; Single-pass type II membrane protein

Tissue Location

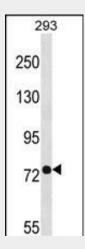
Specifically expressed in ovary (PubMed:9070861). Expressed at low levels in kidney (PubMed:9070861)

PHEX Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

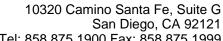
PHEX Antibody (C-term) - Images



PHEX Antibody (C-term) (Cat. #AP16834b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the PHEX antibody detected the PHEX protein (arrow).

PHEX Antibody (C-term) - Background

The protein encoded by this gene is a transmembrane endopeptidase that belongs to the type II integral membrane





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zinc-dependent endopeptidase family. The protein is thought to be involved in bone and dentin mineralization and renal phosphate reabsorption. Mutations in this gene cause X-linked hypophosphatemic rickets.

PHEX Antibody (C-term) - 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)