



Rabbit Anti-PHEX antibody

SL12313R

Product Name:	PHEX
Chinese Name:	维生素D低磷性佝偻病蛋白
Alias:	HPDR; HPDR1; HYP; HYP1; LXHR; Metalloendopeptidase homolog PEX; PEX; Phex; PHEX_HUMAN; Phosphate regulating endopeptidase homolog X linked; Phosphate regulating gene with homologies to endopeptidases on the X chromosome; Phosphate-regulating neutral endopeptidase; Vitamin D-resistant hypophosphatemic rickets protein; X-linked hypophosphatemia protein; XLH.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	86kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human PHEX:201-300/749
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The PHEX a 749 amino acid protein that putatively consists of an intracellular, transmembrane and extracellular domain. PHEX mutations have been observed in 60-80% of hypophosphatemic rickets patients. The PHEX protein, which is a single-pass

membrane protein, is also designated HYP, X-linked hypophosphatemia protein or metalloendopeptidase homolog PEX. PHEX plays an active role in bone and dentin mineralization and renal phosphate re-absorption. X-linked hypophosphatemic rickets, also designated HYP, is an X-linked dominant disorder characterized by impaired phosphate uptake in the kidney, which is likely to be caused by abnormal regulation of sodium phosphate cotransport in the proximal tubules. Clinical manifestations include skeletal deformities, growth failure, craniosynostosis, paravertebral calcifications, pseudofractures in lower extremities, and muscular hypotonia with onset in early childhood.

Function:

Probably involved in bone and dentin mineralization and renal phosphate reabsorption.

Subcellular Location:

Membrane.

Tissue Specificity:

Lymphocytes and fetal brain; not in adult brain, placenta, skeletal muscle and pancreas; not in adult and fetal heart, lung, liver and kidney.

DISEASE:

Defects in PHEX are a cause of X-linked hypophosphatemic rickets (HYP) [MIM:307800]. HYP is an X-linked dominant disorder characterized by impaired phosphate uptake in the kidney, which is likely to be caused by abnormal regulation of sodium phosphate cotransport in the proximal tubules. Clinical manifestations include skeletal deformities, growth failure, craniosynostosis, paravertebral calcifications, pseudofractures in lower extremities, and muscular hypotonia with onset in early childhood. X-linked hypophosphatemic rickets is the most common form of hypophosphatemia with an incidence of 1 in 20000.

Similarity:

Belongs to the peptidase M13 family.

SWISS:

P78562

Gene ID:

5251

Database links:

[Entrez Gene: 5251](#)Human

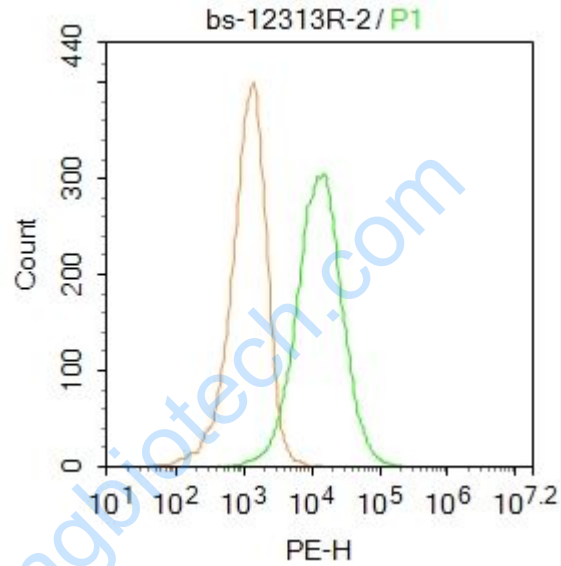
[Omim: 300550](#)Human

[SwissProt: P78562](#)Human

[Unigene: 495834](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Blank control: A549.

Primary Antibody (green line): Rabbit Anti-PHEX antibody (SL12313R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 μ g /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein

interactions for 30 min at room temperature .Cells stained with Primary Antibody

for 30 min at room temperature. The secondary antibody used for 40 min at room

	temperature. Acquisition of 20,000 events was performed.
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