For Research Use Only

PHEX Monoclonal antibody

Catalog Number:66934-1-Ig 3 Publications

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Basic Information

Catalog Number:
66934-1-Ig

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG20290

GenBank Accession Number:
BC105059

GeneID (NCBI):
5251

UNIPROT ID:
P78562

Full Name:
phosphate regulating endopeptidase homolog, X-linked

Calculated MW:
749 aa, 86 kDa

Observed MW:
76-80 kDa, 95-100 kDa

Purification Method:
Protein G purification

CloneNo.:
1D4B2

Recommended Dilutions:
WB: 1:500-1:3000
IHC: 1:250-1:1000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, rat, pig

Cited Species:
human, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, rat lung tissue, pig lung tissue

IHC : human lung cancer tissue,

Background Information

PHEX encodes a transmembrane endopeptidase that belongs to the type II integral membrane zinc-dependent endopeptidase family. The protein usually expressed in osteocytes, osteoblasts and odontoblasts, and it was thought to be involved in bone and dentin mineralization and renal phosphate reabsorption (PMID:28982589). Otherwise, studies showed that PHEX transcripts were identified in human osteosarcoma-derived cells and in differentiated mouse osteoblasts, but not in immature mouse preosteoblasts, indicating the stage-specific expression of the protein (PMID:9199999). Defects in PHEX are responsible for X-linked hypophosphatemic rickets (HYP) (PMID:22339660). Glycosylation of proteins results in higher molecular weight, and about 95-100 kDa band were reported (PMID:25128529; PMID:18728349).

Notable Publications

Author	Pubmed ID	Journal	Application
Mark A Plantz	33831576	Acta Biomater	WB
Hanna Karla Andrade Guapyassu Machado	41352648	Bone	IHC
Huixiao Wu	38442738	J Clin Endocrinol Metab	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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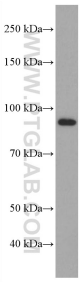
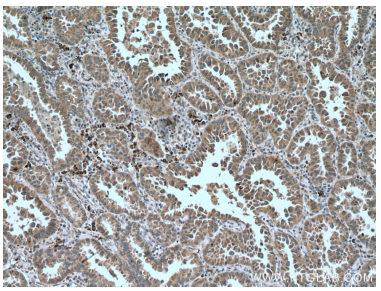
Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 66934-1-Ig (PHEX antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66934-1-Ig (PHEX antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).