

PHEX Monoclonal antibody

Catalog Number: 66934-1-Ig 2 Publications

Basic Information

Catalog Number: 66934-1-Ig	GenBank Accession Number: BC105059	Purification Method: Protein A purification
Size: 1800 µg/ml	GeneID (NCBI): 5251	CloneNo.: 1D4B2
Source: Mouse	UNIPROT ID: P78562	Recommended Dilutions: WB 1:500-1:3000 IHC 1:250-1:1000
Isotype: IgG1	Full Name: phosphate regulating endopeptidase homolog, X-linked	
Immunogen Catalog Number: AG20290	Calculated MW: 749 aa, 86 kDa	
	Observed MW: 86-100 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HEK-293 cells, rat lung tissue, pig lung tissue IHC : human lung cancer tissue,
Cited Applications: WB	
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	

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).

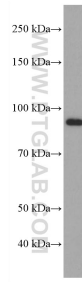
Notable Publications

Author	Pubmed ID	Journal	Application
Mark A Plantz	33831576	Acta Biomater	WB
Huixiao Wu	38442738	J Clin Endocrinol Metab	WB

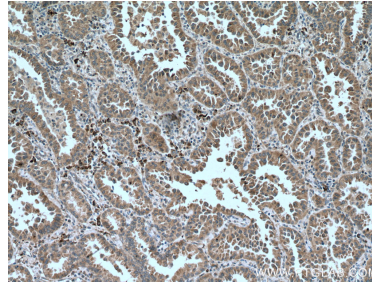
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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).