

For Research Use Only

# PHEX Monoclonal antibody

Catalog Number: 66934-1-Ig 2 Publications



## Basic Information

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

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, rat lung tissue, pig lung tissue IHC : human lung cancer tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human, Rat, Pig	
<b>Cited Species:</b> human, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

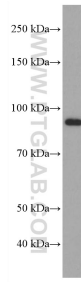
## Storage

**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

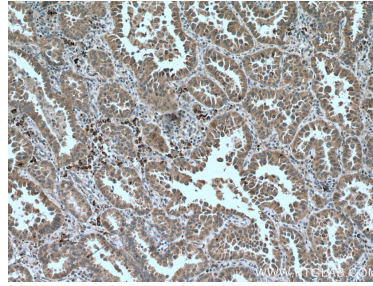
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## Selected Validation Data



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).