

For Research Use Only

# Neprilysin/CD10 Polyclonal antibody

Catalog Number: 10302-1-AP

2 Publications



## Basic Information

<b>Catalog Number:</b> 10302-1-AP	<b>GenBank Accession Number:</b> BC101658	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4311	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08473	
<b>Isotype:</b> IgG	<b>Full Name:</b> membrane metallo-endoropeptidase	
<b>Immunogen Catalog Number:</b> AG0427	<b>Calculated MW:</b> 750 aa, 86 kDa	
	<b>Observed MW:</b> 90-100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> mouse kidney tissue, HEK-293 cells, rat kidney tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human kidney tissue, human hepatocirrhosis tissue, human liver cancer tissue, human renal cell carcinoma tissue
<b>Cited Species:</b> human, mouse, hamster	
<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

CD10, also known as neprilysin, membrane metallo-endoropeptidase (MME), neutral endopeptidase (NEP), or common acute lymphoblastic leukemia antigen (CALLA), is a 100-kDa type II transmembrane glycoprotein belonging to peptidase M13 family (PMID: 7760013; 8102558). Among hematopoietic cells, CD10 is expressed on granulocytes, B cell precursors, mature germinal center B cells, a subset of immature thymocytes (PMID: 13679451). CD10 is also expressed on a variety of nonhematopoietic cell types, including bronchial epithelial cells, cultured fibroblasts, bone marrow stromal cells, renal proximal tubular epithelial cells, breast myoepithelium, biliary canaliculi (PMID: 8102558). CD10 is a cell surface peptidase that cleaves peptide bonds on the amino side of hydrophobic amino acids and inactivates a variety of physiologically active peptides. Loss or decreases in CD10 expression have been reported in a variety of malignancies (PMID: 16054017).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hsiao-Fan Lo	27917469	J Pathol	WB
Saijuan Li	37257698	Fitoterapia	WB

## Storage

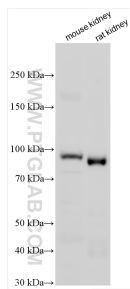
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

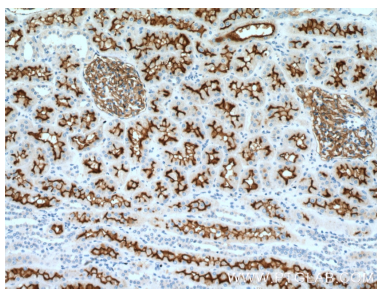
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

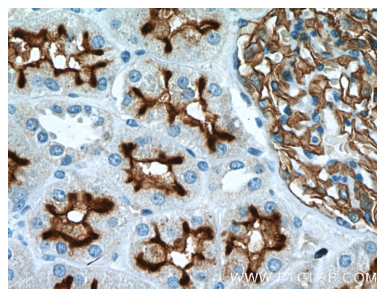
# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10302-1-AP (Nephrilysin/CD10 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10302-1-AP (Nephrilysin/CD10 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10302-1-AP (Nephrilysin/CD10 Antibody) at dilution of 1:200 (under 40x lens).