

For Research Use Only

# Neprilysin/CD10 Monoclonal antibody

Catalog Number: 60034-3-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 60034-3-Ig	<b>GenBank Accession Number:</b> BC101658	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 4311	<b>CloneNo.:</b> 4B9D9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P08473	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:25000-1:100000
<b>Isotype:</b> IgG1	<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> 100 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse, pig, rabbit

**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** : LNCaP cells, Daudi cells, HEK-293 cells, mouse kidney tissue, pig kidney tissue, Ramos cells, A172 cells, rabbit kidney tissue

**IHC** : human kidney tissue, human liver tissue, human renal cell carcinoma tissue, human stomach cancer tissue, human tonsil tissue, mouse kidney tissue, mouse liver tissue

## 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).

## 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

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

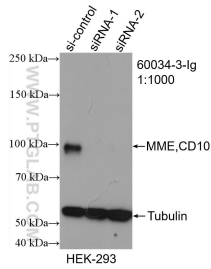
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

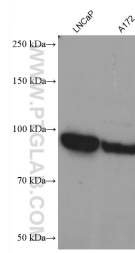
W: [ptgcn.com](http://ptgcn.com)

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

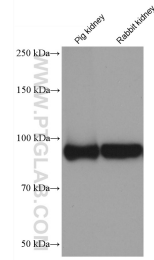
## Selected Validation Data



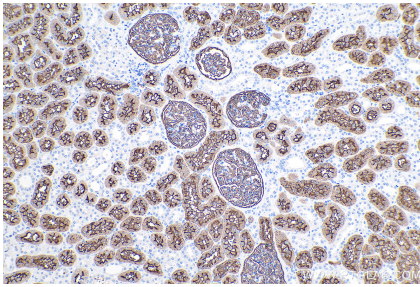
WB result of Nephrilysin/CD10 antibody (60034-3-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Nephrilysin/CD10 transfected HEK-293 cells.



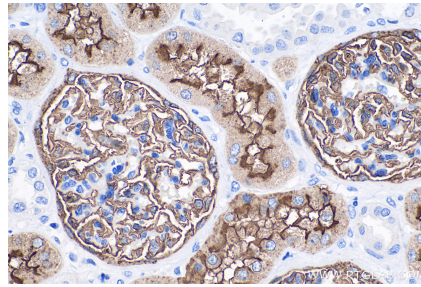
Various lysates were subjected to SDS PAGE followed by western blot with 60034-3-Ig (Nephrilysin/CD10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



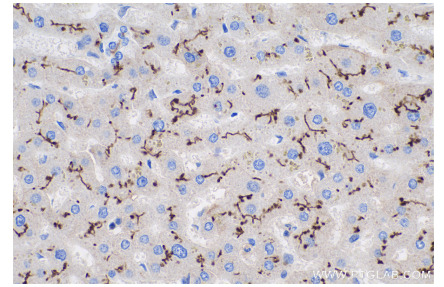
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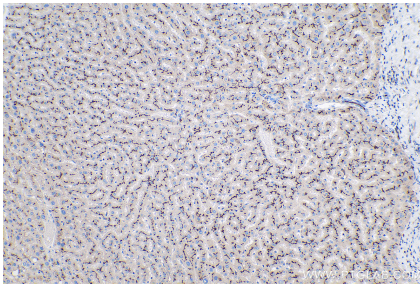
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 60034-3-Ig (Nephrilysin/CD10 antibody) at dilution of 1:50000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 60034-3-Ig (Nephrilysin/CD10 antibody) at dilution of 1:50000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60034-3-Ig (Nephrilysin/CD10 antibody) at dilution of 1:50000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60034-3-Ig (Nephrilysin/CD10 antibody) at dilution of 1:50000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).