

## Neprilysin/CD10 Polyclonal antibody

Catalog Number: 23898-1-AP

4 Publications

## Basic Information

## Catalog Number:

23898-1-AP

## Size:

800 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG20963

## GenBank Accession Number:

BC101658

## GeneID (NCBI):

4311

## UNIPROT ID:

P08473

## Full Name:

membrane metallo-endorpeptidase

## Calculated MW:

750 aa, 86 kDa

## Observed MW:

90-110 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:400-1:1600

## Applications

## Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

## Cited Applications:

WB, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse

**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** : mouse kidney tissue, human kidney tissue, rat kidney tissue

**IHC** : human kidney tissue,

**IF-P** : mouse kidney tissue,

**IF/ICC** : Ramos cells,

## Background Information

CD10, also known as neprilysin, membrane metallo-endorpeptidase (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
Caiyun Li	34644519	Biochem Cell Biol	WB
Xinliu Zeng	29669342	Cell Physiol Biochem	IF
Yi Gong	38867256	J Transl Med	IF

## 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

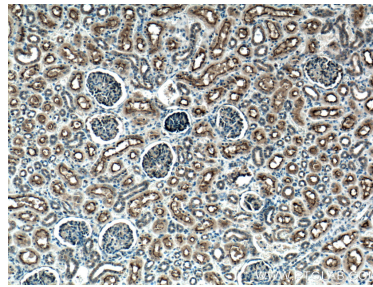
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

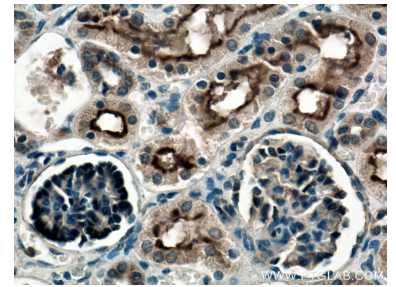
## Selected Validation Data



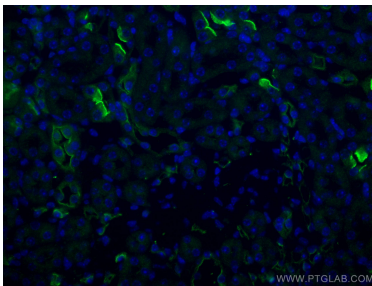
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 23898-1-AP (Neprilysin/CD10 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



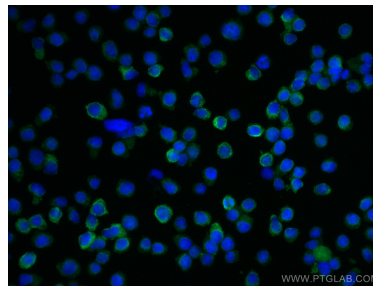
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 23898-1-AP (Neprilysin/CD10 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 23898-1-AP (Neprilysin/CD10 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using Neprilysin/CD10 antibody (23898-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed Ramos cells using MME,CD10 antibody (23898-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).