For Research Use Only

Neprilysin/CD10 Polyclonal antibody

Catalog Number:23898-1-AP 4 Publications

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Basic Information

Catalog Number:
23898-1-AP

Size:
150ul , Concentration: 800 ug/ml by Nanodrop and 447 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG20963

GenBank Accession Number:
BC101658

GeneID (NCBI):
4311

UNIPROT ID:
P08473

Full Name:
membrane metallo-endopeptidase

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-endopeptidase (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

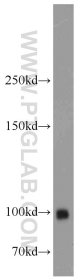
Storage

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

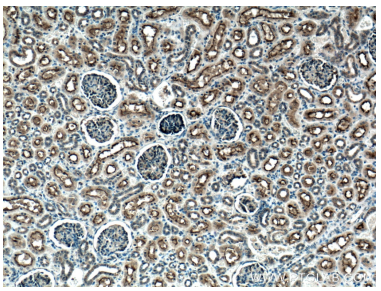
***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

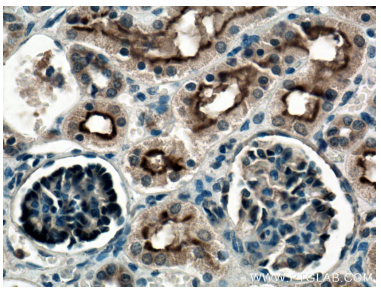
Selected Validation Data



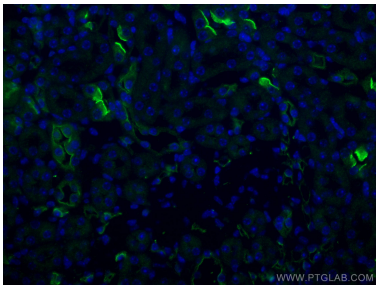
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 23898-1-AP (Neprilysin/CD10 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



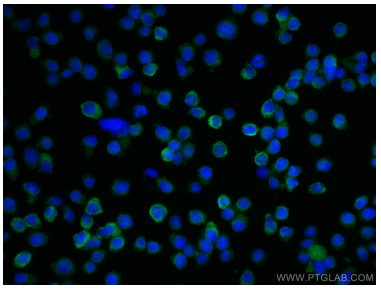
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 23898-1-AP (Neprilysin/CD10 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).