

For Research Use Only

Neprilysin/CD10 Polyclonal antibody

Catalog Number: 10302-1-AP

2 Publications



Basic Information

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

Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Cited Applications:	WB	WB :	mouse kidney tissue, HEK-293 cells, rat kidney tissue
Species Specificity:	human, mouse, rat	IHC :	human kidney tissue, human hepatocirrhosis tissue, human liver cancer tissue, human renal cell carcinoma tissue
Cited Species:	human, mouse, hamster		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			

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
Hsiao-Fan Lo	27917469	J Pathol	WB
Saijuan Li	37257698	Fitoterapia	WB

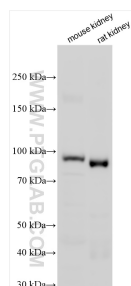
Storage

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

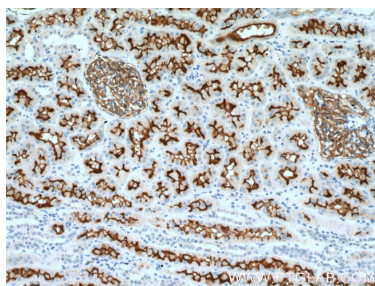
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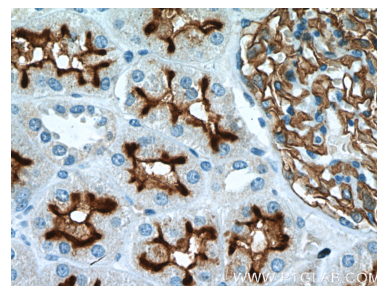
Selected Validation Data



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).