

For Research Use Only

Neprilysin/CD10 Monoclonal antibody

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



Basic Information

Catalog Number: 60034-3-Ig	GenBank Accession Number: BC101658	Purification Method: Protein A purification
Size: 150ul, Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4311	CloneNo.: 4B9D9
Source: Mouse	UNIPROT ID: P08473	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:25000-1:100000
Isotype: IgG1	Full Name: membrane metallo-endoropeptidase	
Immunogen Catalog Number: AG0427	Calculated MW: 750 aa, 86 kDa	
	Observed MW: 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

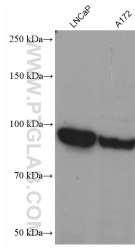
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

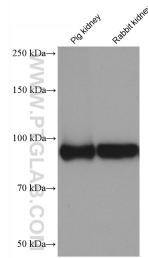
E: proteintech@ptglab.com
W: ptglab.com

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

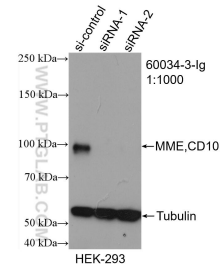
Selected Validation Data



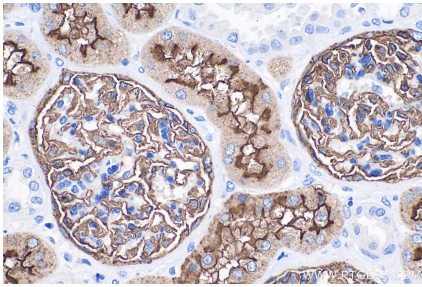
Various lysates were subjected to SDS PAGE followed by western blot with 60034-3-Ig (Nepriylsin/CD10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



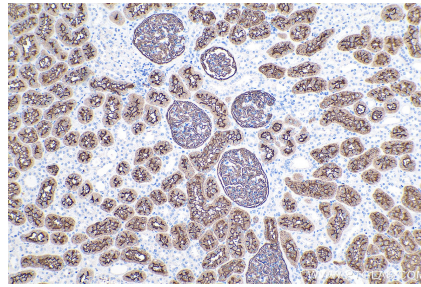
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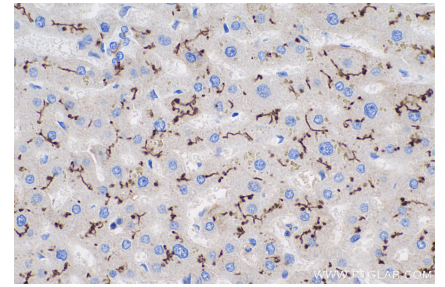
WB result of Nepriylsin/CD10 antibody (60034-3-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Nepriylsin/CD10 transfected HEK-293 cells.



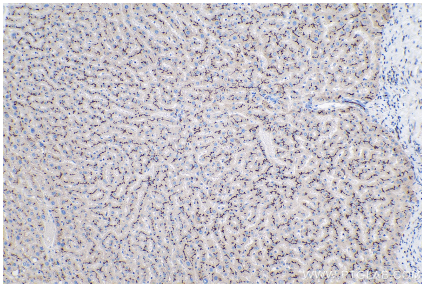
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 60034-3-Ig (Nepriylsin/CD10 antibody) at dilution of 1:50000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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