

For Research Use Only

Neprilysin/CD10 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84181-1-PBS



Basic Information

Catalog Number: 84181-1-PBS	GenBank Accession Number: BC101658	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4311	CloneNo.: 241322A8
Source: Rabbit	UNIPROT ID: P08473	
Isotype: IgG	Full Name: membrane metallo-endoropeptidase	
	Calculated MW: 750 aa, 86 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

84181-1-PBS targets Neprilysin/CD10 as part of a matched antibody pair:

MP01076-1: 84181-3-PBS capture and 84181-1-PBS detection (validated in Cytometric bead array)

MP01076-3: 84181-2-PBS capture and 84181-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 -80°C.
Storage Buffer:
PBS Only

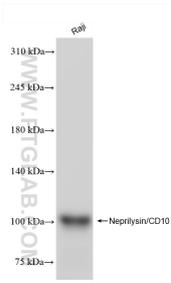
For technical support and original validation data for this product please contact:

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

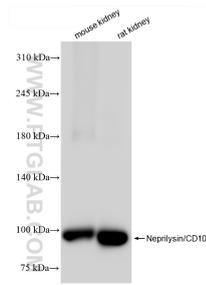
E: proteintech@ptglab.com
W: ptglab.com

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

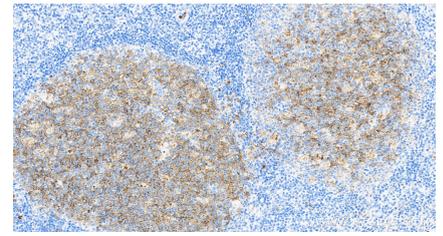
Selected Validation Data



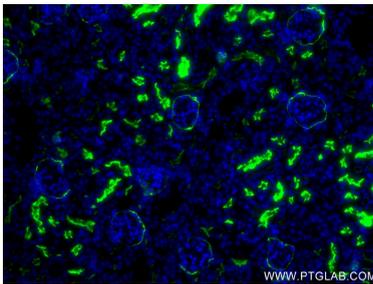
Raji cells were subjected to SDS PAGE followed by western blot with 84181-1-RR (Nephrilysin/CD10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84181-1-PBS in a different storage buffer formulation.



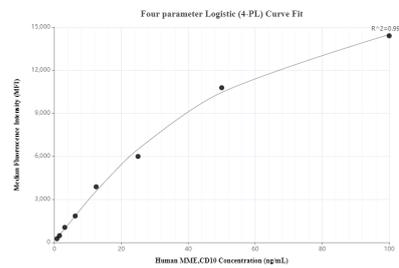
Various lysates were subjected to SDS PAGE followed by western blot with 84181-1-RR (Nephrilysin/CD10 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84181-1-PBS in a different storage buffer formulation.



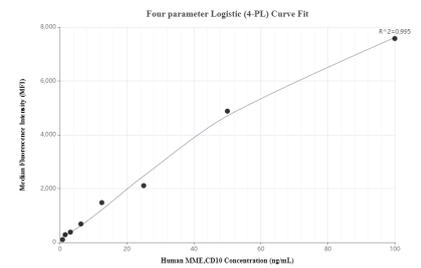
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84181-1-RR (Nephrilysin/CD10 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84181-1-PBS in a different storage buffer formulation.



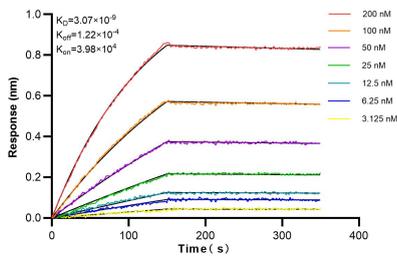
Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using Nephrilysin/CD10 antibody (84181-1-RR, Clone: 241322A8) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84181-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01076-1, MME,CD10 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84181-3-PBS. Detection antibody: 84181-1-PBS. Standard: RP02332. Range: 0.781-100 ng/mL.



Cytometric bead array standard curve of MP01076-3, MME,CD10 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84181-2-PBS. Detection antibody: 84181-1-PBS. Standard: RP02332. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84181-1-RR against Human Nephrilysin/CD10 were performed. The affinity constant is 3.07 nM.