

For Research Use Only

CD13 Polyclonal antibody

Catalog Number: 14553-1-AP **9 Publications**



Basic Information

Catalog Number: 14553-1-AP	GenBank Accession Number: BC058928	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 290	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: alanyl (membrane) aminopeptidase	
Isotype: IgG	Calculated MW: 110 kDa	
Immunogen Catalog Number: AG5976	Observed MW: 150 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, monkey, rabbit, pig, canine

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 : HepG2 cells, human liver tissue, human kidney tissue, PC-3 cells, THP-1 cells, mouse kidney tissue, mouse liver tissue

IHC : human tonsillitis tissue, human colon tissue, human kidney tissue

IF : mouse kidney tissue,

Background Information

CD13, also named as APN, ANPEP (aminopeptidase N) or PEPN, is belongs to the peptidase M1 family. CD13 is a heavily glycosylated, ~150-240 kDa, type-II membrane, expressed by most cells of myeloid origin including monocytes, macrophages, granulocytes, and their hematopoietic precursors. It is also abundantly expressed in the brush border of epithelial cells from renal proximal tubules and small intestine, in prostatic epithelial cells, in bile duct canaliculi, in mast cells, and, in some cases, in fibroblasts and smooth muscle cells. CD13 is a multifunctional protein and plays varying roles in cell migration, cell proliferation, cell differentiation and so on. CD13 participates in angiogenesis generating and modulating angiogenic signals, and can be a marker of angiogenic vessels. CD13 is also a pan-myeloid marker, present on mature granulocytes and monocytes. (PMID: 8805662, 10098327, 18603472, 18097955, 17897790, 17888402, 21339174)

Notable Publications

Author	Pubmed ID	Journal	Application
Shion Osana	33091420	Exp Cell Res	IF
Yang Gu	34649567	Mol Cancer	WB
Weizhi Wang	25370073	Anal Chem	

Storage

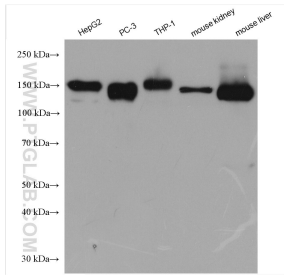
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

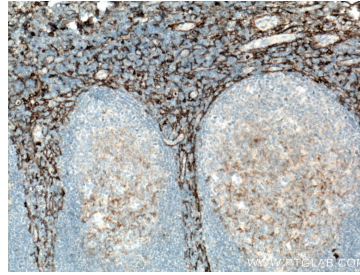
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

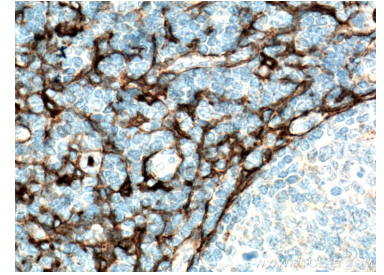
Selected Validation Data



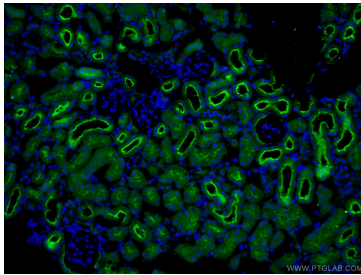
Various lysates were subjected to SDS PAGE followed by western blot with 14553-1-AP (CD13 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



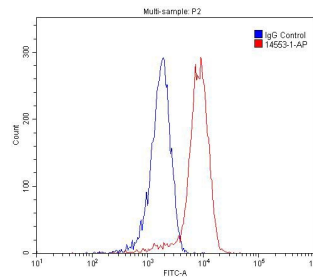
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14553-1-AP (CD13 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14553-1-AP (CD13 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 14553-1-AP (CD13 antibody) at dilution of 1:50 and CoralLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 HEK-293 cells were stained with 0.2ug CD13 antibody (14553-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.