

CD13 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 66211-1-PBS

Basic Information

| | | |
|---|---|---|
| Catalog Number: 66211-1-PBS | GenBank Accession Number: BC058928 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1mg/ml by Nanodrop; | GeneID (NCBI): 290 | CloneNo.: 2D8D11 |
| Source: Mouse | ENSEMBL Gene ID: ENSG00000166825 | |
| Isotype: IgG2a | UNIPROT ID: P15144 | |
| Immunogen Catalog Number: AG5976 | Full Name: alanyl (membrane) aminopeptidase | |
| | Calculated MW: 110 kDa | |
| | Observed MW: 150 kDa | |

Applications

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

Species Specificity:
human, mouse, rat

Product Information

66211-1-PBS targets CD13 as part of a matched antibody pair:

MP50521-1: 66211-1-PBS capture and 66211-2-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

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

CD13, also named as APN, ANPEP (aminopeptidase N) or PEPN, is belongs to the peptidase M-1 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)

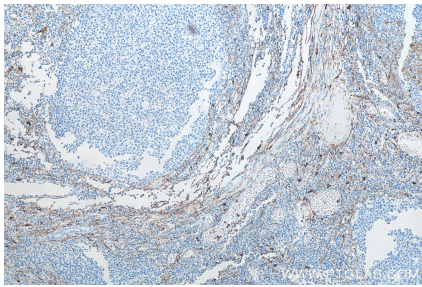
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

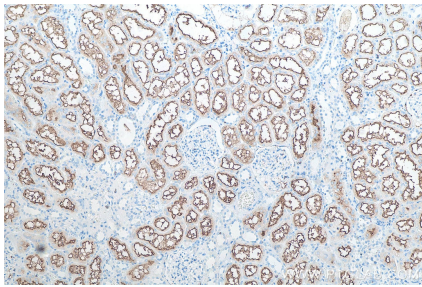
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

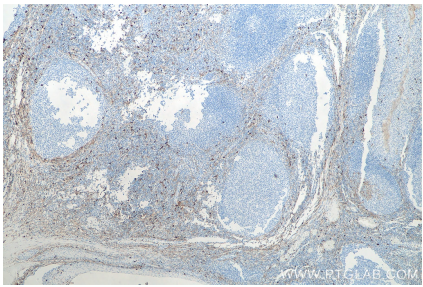
Selected Validation Data



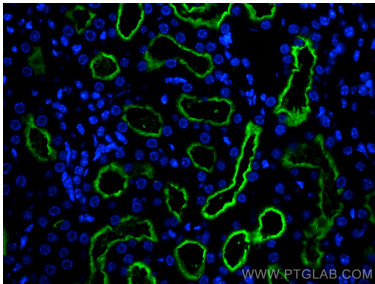
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66211-1-Ig (CD13 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



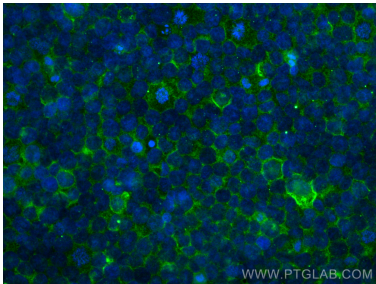
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66211-1-Ig (CD13 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



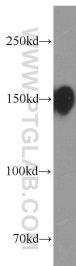
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66211-1-Ig (CD13 antibody) at dilution of 1:10000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



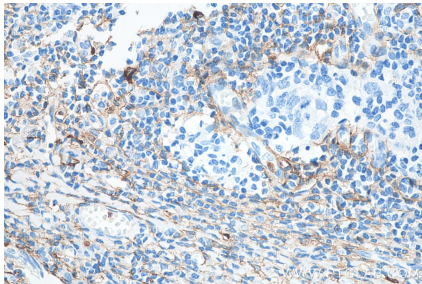
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using CD13 antibody (66211-1-Ig, Clone: 2D8D11) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



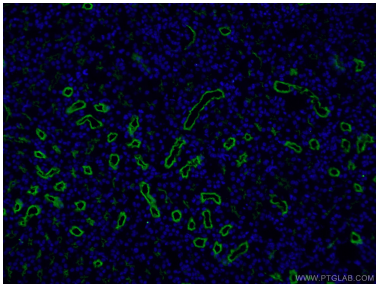
Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using CD13 antibody (66211-1-Ig, Clone: 2D8D11) at dilution of 1:800 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



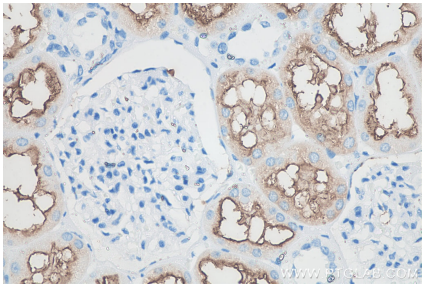
U-937 cells were subjected to SDS PAGE followed by western blot with 66211-1-Ig (CD13 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



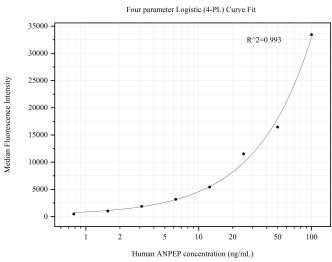
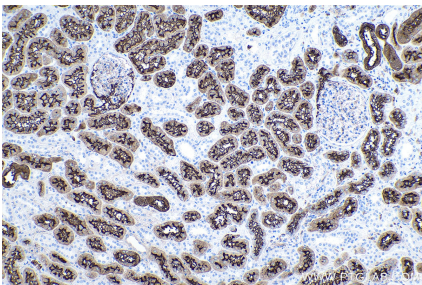
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66211-1-Ig (CD13 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using 66211-1-Ig (CD13 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66211-1-Ig (CD13 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66211-1-Ig (CD13 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66211-1-PBS in a different storage buffer formulation.

Cytometric bead array standard curve of MP50521-1, ANPEP Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66211-1-PBS. Detection antibody: 66211-2-PBS. Standard:Ag5976. Range: 0.781-100 ng/mL.