

# CoraLite®594-conjugated CD13

## Monoclonal antibody

Catalog Number:CL594-66211

### Basic Information

Catalog Number: CL594-66211	GenBank Accession Number: BC058928	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 290	CloneNo.: 2D8D11
Source: Mouse	ENSEMBL Gene ID: ENSG00000166825	Recommended Dilutions: IF 1:50-1:200
Isotype: IgG2a	UNIPROT ID: P15144	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG5976	Full Name: alanyl (membrane) aminopeptidase	
	Calculated MW: 110 kDa	

### Applications

Tested Applications: FC (Intra), IF/ICC	Positive Controls: IF : mouse kidney tissue,
Species Specificity: human, mouse	

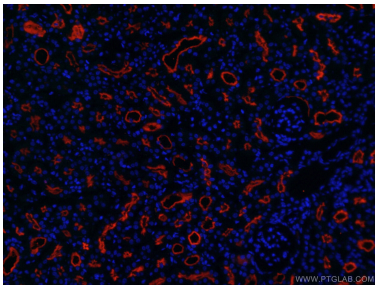
### Background Information

CD13, also named as APN, ANPEP(aminopeptidase N) or PEPN, 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).And this antibody is conjugated with CL594(Ex/Em 593 nm/614 nm).

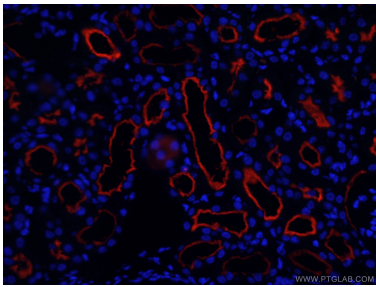
### Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

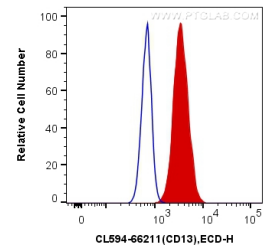
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using CL594-66211 (CD13 antibody) at dilution of 1:100.



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1X10<sup>6</sup> U-937 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human CD13 (CL594-66211, Clone:2D8D11) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).