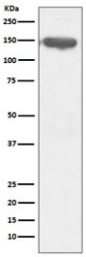
CD13 Antibody / ANPEP [clone GOF-1] (RQ5442)

Catalog No.	Formulation	Size
RQ5442	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	GOF-1
Purity	Affinity purified
UniProt	P15144
Applications	Western Blot : 1:1000-1:2000
Limitations	This CD13 antibody is available for research use only.



Western blot testing of human ThP1 cell lysate with CD13 antibody. Expected molecular weight: 110-150 kDa depending on glycosylation level.

Description

Aminopeptidase N, also called ANPEP and CD13, is located in the small-intestinal and renal microvillar membrane, and also in other plasma membranes. In the small intestine aminopeptidase N plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Its function in proximal tubular epithelial cells and other cell types is less clear. The large extracellular carboxyterminal domain contains a pentapeptide consensus sequence characteristic of members of the zinc-binding metalloproteinase superfamily. Sequence comparisons with known enzymes of this class showed that CD13 and aminopeptidase N are identical. The latter enzyme was thought to be involved in the metabolism of regulatory peptides by diverse cell types, including small intestinal and renal tubular

epithelial cells, macrophages, granulocytes, and synaptic membranes from the CNS. Human aminopeptidase N is a receptor for one strain of human coronavirus that is an important cause of upper respiratory tract infections. Defects in this gene appear to be a cause of various types of leukemia or lymphoma. [RefSeq]

Application Notes

Optimal dilution of the CD13 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human CD13 / ANPEP was used as the immunogen for the CD13 antibody.

Storage

Store the CD13 antibody at -20oC.