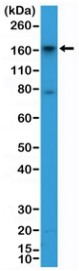
CD13 Antibody RM403 / Cell Surface Aminopeptidase [clone RM403] (R20419)

Catalog No.	Formulation	Size
R20419-0.1ML	Antibody in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ul

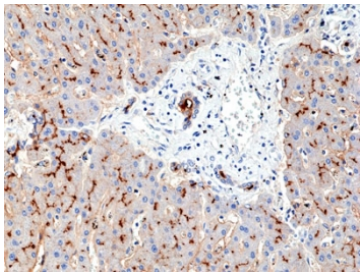
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM403
Purity	Protein A purified from animal origin-free supernatant
UniProt	P15144
Applications	Immunohistochemistry (FFPE): 1:100-1:200 Western blot: 1:1000-1:2000
Limitations	This CD13 Antibody RM403 / Cell Surface Aminopeptidase is available for research use only.



CD13 Antibody RM403 in Human HepG2 Hepatocellular Carcinoma Cells WB. Western blot testing of human HepG2 hepatocellular carcinoma cell lysate with CD13 Antibody RM403 / Cell Surface Aminopeptidase at a 1:2000 dilution. CD13 is detected within the expected 110-150 kDa molecular weight range, which can vary due to the extensive glycosylation of the mature protein. This CD13 Antibody demonstrates detection of the ANPEP cell surface aminopeptidase in human HepG2 cell lysate.



CD13 Antibody RM403 in Human Liver IHC. Immunohistochemistry staining of FFPE human liver tissue with CD13 Antibody RM403 / Cell Surface Aminopeptidase at a 1:200 dilution. This CD13 Antibody demonstrates detection of ANPEP/CD13 in human liver tissue.

Description

CD13 Antibody RM403 / Cell Surface Aminopeptidase recognizes CD13, a membrane-associated zinc-dependent metalloprotease encoded by the ANPEP gene. CD13 is also known as aminopeptidase N (APN), alanyl aminopeptidase and membrane alanyl aminopeptidase. This multifunctional ectopeptidase removes N-terminal amino acids from peptides and contributes to the processing and regulation of biologically active peptides. CD13 is broadly distributed among epithelial, endothelial and hematopoietic cell populations, with prominent expression in renal and intestinal tissues and cells of the myeloid lineage.

CD13 is an established marker of myeloid differentiation and is expressed by monocytes, granulocytes and myeloid progenitor populations. Its expression is also frequently observed in acute myeloid leukemia and other myeloid malignancies. Beyond hematopoietic biology, ANPEP/CD13 participates in processes associated with peptide metabolism, cell adhesion and migration, angiogenesis and immune regulation. Expression in multiple tumor types has further made CD13 relevant to studies of cancer biology and the tumor microenvironment.

CD13 is a type II transmembrane protein containing a large extracellular catalytic domain. Extensive post-translational glycosylation contributes to an apparent molecular weight of approximately 110-150 kDa, rather than a single discrete molecular weight. This characteristic is particularly relevant when evaluating CD13 expression by Western blot and reflects the highly glycosylated nature of the mature cell surface protein.

Clone RM403 is a recombinant rabbit monoclonal antibody generated using a peptide corresponding to residues near the C-terminus of human CD13. The antibody is validated for Western blot and immunohistochemical detection of human CD13 and is Protein Microarray Validated. NSJ Bioreagents provides this CD13 Antibody for research into ANPEP expression, myeloid biology, peptide metabolism and related cellular processes. This recombinant clone provides a defined antibody reagent for investigating the expression and distribution of the CD13 cell surface aminopeptidase.

For additional information and reagents targeting this cell surface metalloprotease and myeloid marker, visit our CD13 Antibody / Myeloid Cell Marker page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the CD13 Antibody RM403 / Cell Surface Aminopeptidase may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A peptide corresponding to residues near the C-terminus of human CD13 was used as the immunogen for the recombinant CD13 antibody.

Storage

Store the recombinant CD13 antibody at -20oC.

Alternate Names

CD13 antibody, ANPEP antibody, aminopeptidase N antibody, alanyl aminopeptidase antibody, membrane alanyl aminopeptidase antibody, APN antibody

Copyright © NSJ Bioreagents. All rights reserved.