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KD-Validated Anti-CD13 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1179

Specification

KD-Validated Anti-CD13 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P15144
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 110 kDa, observed, 150 kDa KDa**
Gene Name	**ANPEP**
Aliases	**ANPEP; Alanyl Aminopeptidase, Membrane; AP-N; HAPN; Microsomal Aminopeptidase; Aminopeptidase N; Aminopeptidase M; LAP1; P150; CD13; PEPN; Myeloid Plasma Membrane Glycoprotein CD13; Alanyl (Membrane) Aminopeptidase; Membrane Alanyl Aminopeptidase; EC 3.4.11.2; Gp150; GP150; AP-M; APN; Alanyl; Aminopeptidase; CD13 Antigen; EC 3.4.11**
Immunogen	**A synthesized peptide derived from human CD13**

KD-Validated Anti-CD13 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**290**

Other Names

Aminopeptidase N, AP-N, hAPN, 3.4.11.2, Alanyl aminopeptidase, Aminopeptidase M, AP-M, Microsomal aminopeptidase, Myeloid plasma membrane glycoprotein CD13, gp150, CD13, ANPEP, APN, CD13, PEPN

KD-Validated Anti-CD13 Rabbit Monoclonal Antibody - Protein Information

Name ANPEP

Synonyms APN, CD13, PEPN

Function

Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. May also be involved the cleavage of peptides bound to major histocompatibility complex class II molecules of antigen presenting cells. May have a role in angiogenesis and promote cholesterol crystallization. May have a role in amino acid transport by acting as binding partner of amino acid transporter SLC6A19 and regulating its activity (By similarity).

Cellular Location
Cell membrane; Single-pass type II membrane protein. Note=Also found as a soluble form

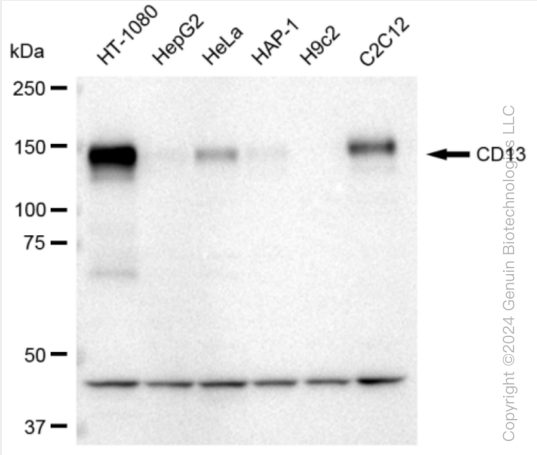
Tissue Location
Expressed in epithelial cells of the kidney, intestine, and respiratory tract; granulocytes, monocytes, fibroblasts, endothelial cells, cerebral pericytes at the blood-brain barrier, synaptic membranes of cells in the CNS. Also expressed in endometrial stromal cells, but not in the endometrial glandular cells. Found in the vasculature of tissues that undergo angiogenesis and in malignant gliomas and lymph node metastases from multiple tumor types but not in blood vessels of normal tissues. A soluble form has been found in plasma. It is found to be elevated in plasma and effusions of cancer patients.

KD-Validated Anti-CD13 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CD13 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CD13 antibody (Cat#AGI1179). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CD13 antibody (Cat#AGI1179, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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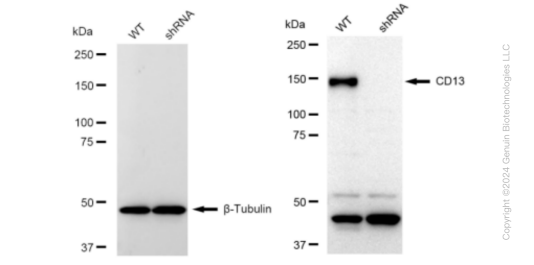
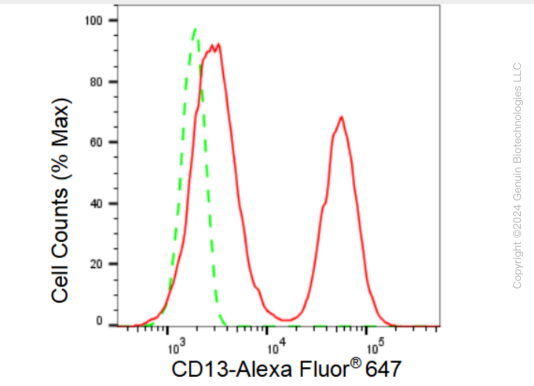
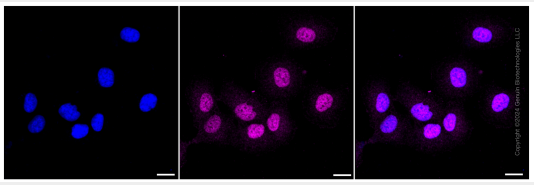


Western blotting analysis using anti-CD13 antibody (Cat#AGI1179). CD13 expression in wild type (WT) and CD13 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-CD13 antibody (Cat#AGI1179, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CD13 expression in HT-1080 cells using CD13 antibody (Cat#AGI1179, 1:2,000). Green, isotype control; red, CD13.



Immunocytochemical staining of HT-1080 cells with CD13 antibody (Cat#AGI1179, 1:1,000). Nuclei were stained blue with DAPI; CD13 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.