

Mouse CD13 Monoclonal Antibody | anti-CD13 antibody

Anti-Hu CD13 PE-Cy7

CATALOG # AAA129170	HOST Mouse	REACTIVITY Human, Non-human primates	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD13; Monoclonal Antibody; Anti-Hu CD13 PE-Cy7; Aminopeptidase N; APN; PEPN; ANPEP; gp150; LAP1; alanyl aminopeptidase; membrane; anti-CD13 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Non-human primates
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	WM15
Specificity	The antibody WM15 recognises an extracellular epitope of human CD13 cell surface glycoprotein, a 150kDa molecule expressed on granulocytes, endothelial cells, epithelial cells and myeloid progenitors.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cy7 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD13 antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE-Cy7
Immunogen	Human AML cells
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD13 antibody	CD13 (aminopeptidase N, APN) is a 150kDa type II transmembrane zinc-binding ectopeptidase expressed on various cell types. This metalloprotease preferentially catalyzes removal of neutral amino acids from small peptides, thus activating or inactivating bioactive peptides. CD13 has also role in extracellular matrix degradation, antigen processing and signal transduction, is important in inflammatory responses, regulates intercellular contact, cell motility and vascularization. CD13 is involved in protection of leukemic cells against apoptosis and its expression associated with poor prognosis of carcinomas.
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References	*Favaloro EJ, Browning T, Facey D: CD13 (GP150; aminopeptidase-N): predominant Functional Application (FUNC)tional activity in blood is localized to plasma and is not cell-surface associated. Exp Hematol. 1993 Dec;21(13):1695-701., URL: https://www.ncbi.nlm.nih.gov/pubmed/7902291dopt=A,*McCormack E, Mujic M, Osdal T, Bruserud O, Gjertsen BT: Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia. Blood. 2013 Feb 14;121(7):e34-42. doi: 10.1182/blood-2012-05-429555., URL: https://www.ncbi.nlm.nih.gov/pubmed/23243270,*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995)., URL:,*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989)., URL:,*Leukocyte Typing III., McMichael A.J. et al. (Eds.), Oxford University Press (1987)., URL:,*Bradstock KF, Favaloro EJ, Kabral A, Kerr A, Hughes WG, Musgrove E: Myeloid progenitor surface antigen identified by monoclonal antibody. Br J Haematol. 1985 Sep;61(1):11-20., URL: https://www.ncbi.nlm.nih.gov/pubmed/4052321dopt=A,*Bradstock KF, Favaloro EJ, Kabral A, Kerr A, Hughes WG, Berndt MC, Musgrove E: Human myeloid differentiation antigens identified by monoclonal antibodies: expression on leukemic cells. Pathology. 1985 Jul;17(3):392-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/3865147dopt=A *Tokuhara T, Hattori N, Ishida H, Hirai T, Higashiyama M, Kodama K, Miyake M. Clinical significance of aminopeptidase N in non-small cell lung cancer. Clin Cancer Res. 2006 Jul 1;12(13):3971-8., URL: <a 2007="" 27;7:140.,="" <a="" a,="" apn="" bmc="" cancer.="" carcinoma="" cd13="" cells.="" f.="" h,="" href="https://www.ncbi.nlm.nih.gov/pubmedDb=pubmed&Cmd=" https:="" in="" inhibition="" ino="" jul="" k,="" kajiyama="" kikkawa="" leads="" m,="" mizutani="" nawa="" of="" ovarian="" potential="" progressive="" pubmeddb="pubmed&Cmd=,*Terauchi" s,="" shibata="" suppressed="" to="" url:="" www.ncbi.nlm.nih.gov="">https://www.ncbi.nlm.nih.gov/pubmedDb=pubmed&Cmd=
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157266300
NCBI GeneID	290
NCBI Accession #	NP_001141.2
NCBI GenBank Nucleotide #	NM_001150.2
UniProt Accession #	P15144; Q16728; Q6GT90; Q8IUK3; Q8IVH3; Q9UCE0
Molecular Weight	109,540 Da
NCBI Official Full Name	aminopeptidase N
NCBI Official Synonym Full Names	alanyl (membrane) aminopeptidase
NCBI Official Symbol	ANPEP
NCBI Official Synonym Symbols	APN; CD13; LAP1; P150; PEPN; GP150
NCBI Protein Information	aminopeptidase N; AP-M; AP-N; hAPN; aminopeptidase M; alanyl aminopeptidase; microsomal aminopeptidase; myeloid plasma membrane glycoprotein CD13
UniProt Protein Name	Aminopeptidase N
UniProt Gene Name	ANPEP
UniProt Synonym Gene Names	APN; CD13; PEPN; AP-N; hAPN; AP-M
UniProt Entry Name	AMPN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd13-antibody-clone-wm15-flow-cytometry-elisa/129170>