

Datasheet for ABIN1027683
anti-CD13 antibody (Biotin)[Go to Product page](#)[2 Images](#)[4 Publications](#)

Overview

Quantity:	0.1 mg
Target:	CD13 (ANPEP)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD13 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoprecipitation (IP)

Product Details

Immunogen:	Human AML cells
Clone:	WM15
Isotype:	IgG1
Specificity:	The antibody WM15 recognises an extracellular epitope of human CD13 cell surface glycoprotein, a 150 kDa molecule expressed on granulocytes, endothelial cells, epithelial cells and myeloid progenitors.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

Target:	CD13 (ANPEP)
Alternative Name:	CD13 (ANPEP Products)
Background:	Alanyl aminopeptidase, membrane,CD13 (aminopeptidase N, APN) is a 150 kDa 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.,Aminopeptidase N, APN, PEPN, ANPEP, gp150, LAP1
Gene ID:	290
UniProt:	P15144
Pathways:	Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 3-5 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

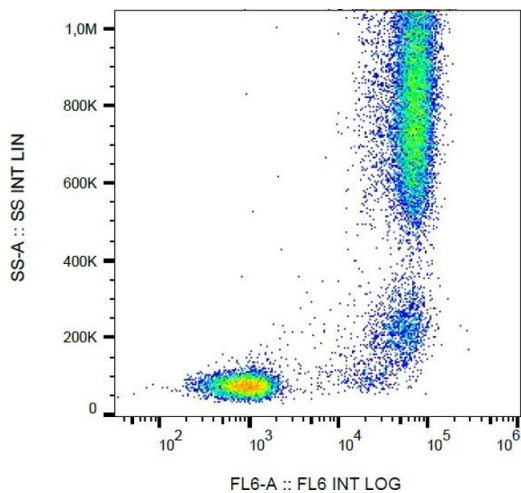
Product cited in: McCormack, Muji?, Osdal, Bruserud, Gjertsen: "Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia." in: **Blood**, Vol. 121, Issue 7, pp. e34-42, (2013) ([PubMed](#)).

Favaloro, Browning, Facey: "CD13 (GP150; aminopeptidase-N): predominant functional activity in blood is localized to plasma and is not cell-surface associated." in: **Experimental hematology**, Vol. 21, Issue 13, pp. 1695-701, (1993) ([PubMed](#)).

Bradstock, Favaloro, Kabral, Kerr, Hughes, Berndt, Musgrove: "Human myeloid differentiation antigens identified by monoclonal antibodies: expression on leukemic cells." in: **Pathology**, Vol. 17, Issue 3, pp. 392-9, (1986) ([PubMed](#)).

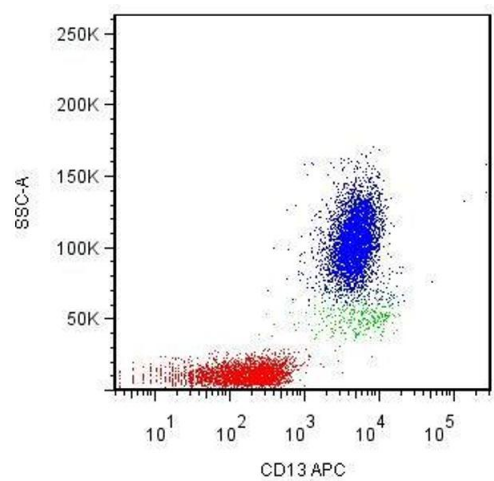
Bradstock, Favaloro, Kabral, Kerr, Hughes, Musgrove: "Myeloid progenitor surface antigen identified by monoclonal antibody." in: **British journal of haematology**, Vol. 61, Issue 1, pp. 11-20, (1985) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood leukocytes with anti-CD13 (WM15) biotin, streptavidin-APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood leukocytes with anti-CD13 mouse monoclonal antibody WM15 .