Datasheet for ABIN93961

anti-CD13 antibody

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Overview

Quantity:	0.1 mg
Target:	CD13 (ANPEP)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD13 antibody is un-conjugated
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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: 1-4 µg/mL.
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.**
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

Publications

time-domain imaging of acute myeloid leukemia." in: **Blood**, Vol. 121, Issue 7, pp. e34-42, (2013) (PubMed).

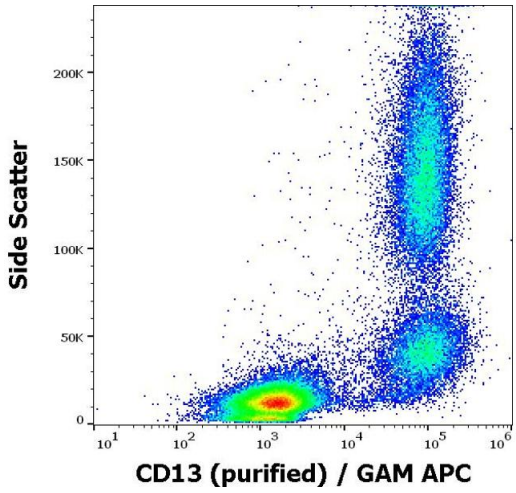
Maeda, Wakasawa, Shima, Tsuboi, Aizawa, Tamai: "Role of polyamines derived from arginine in differentiation and proliferation of human blood cells." in: **Biological & pharmaceutical bulletin**, Vol. 29, Issue 2, pp. 234-9, (2006) (PubMed).

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).

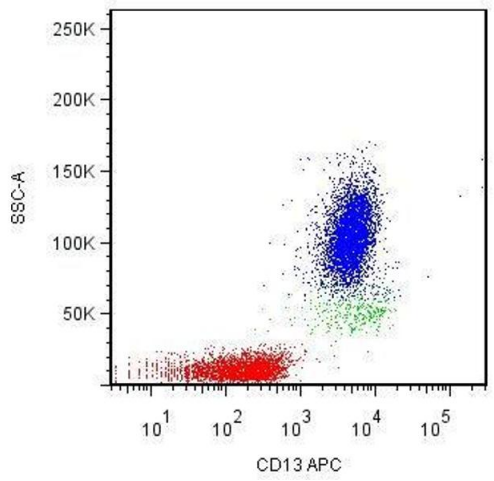
Bradstock, Favaloro, Kabral, Kerr, Hughes, Musgrove: "Myeloid progenitor surface antigen identified by monoclonal antibody." in: **British journal of haematology**, Vol. 61, Issue 1, pp. 11-20, (1985) (PubMed).

Images



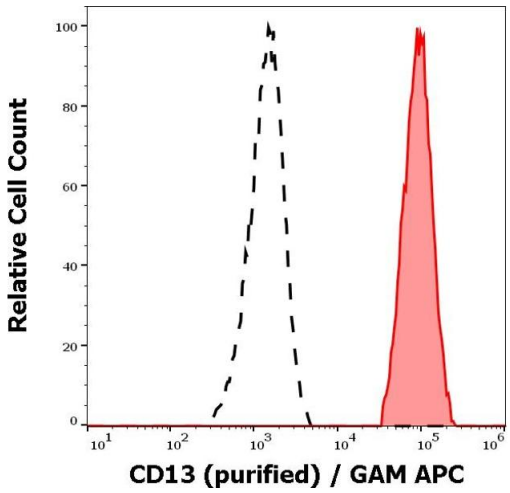
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD13 (WM15) purified antibody (concentration in sample 1 µg/mL, GAM APC).



Flow Cytometry

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



Flow Cytometry

Image 3. Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD13 (WM15) purified antibody (concentration in sample 1 µg/mL, GAM APC).