Datasheet for ABIN94123

anti-CD44 antibody

2 Images | 4 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	CD44
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD44 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	Anti-Hu CD44 Purified
Immunogen:	Leukocytes of a patient suffering from LGL Type Leukaemia.
Clone:	MEM-85
Isotype:	IgG2b
Specificity:	The antibody MEM-85 reacts with an extracellular antigen of both cell surface-expressed and soluble form of CD44 antigen (Phagocyte glycoprotein 1), a 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.), it is negative on platelets and hepatocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD44
Alternative Name:	CD44 (CD44 Products)
Background:	CD44 Molecule,CD44 is a transmembrane glycoprotein expressed on the surface of most cells, which serves as a receptor for hyaluronan. CD44 mediates angiogenesis, cell adhesion, proliferation and migration, it is thus important for lymphocyte activation, recirculation and homing, it can thus serve e.g. as a modulator of macrophage recruitment in response to pathogen. Although CD44 functions are essential for physiological activities of normal cells, elevated CD44 expression correlates with poor prognosis in many carcinomas, facilitating tumour growth and metastasis, antiapoptosis and directional motility of cancer cells.,PGP-I, HUTCH-I, ECMR-III, Hermes antigen, Hyaluronate receptor, Heparan sulfate proteoglycan, Epican, MC56, MIC4, INLU, LHR
Gene ID:	960
UniProt:	P16070
Pathways:	Glycosaminoglycan Metabolic Process, Autophagy, Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2-6 µg/mL. Western blotting: Recommended dilution: 2 µg/mL, 60 min on vertical incubator, positive control: Kg-1a human leukemia cell lysate, non-reducing conditions.
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:

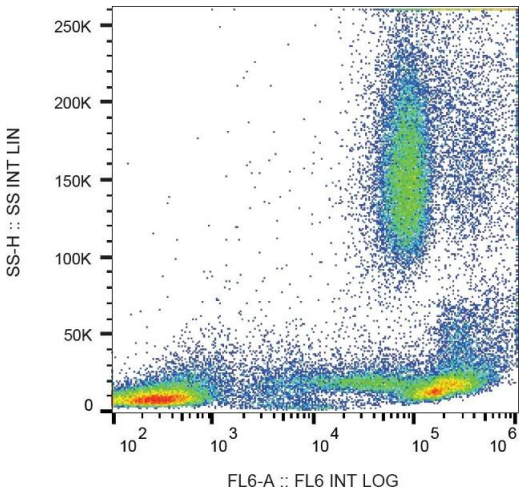
Minamikawa, Nozu, Maeta, Yamamura, Nakanishi, Fujimura, Horinouchi, Nagano, Sakakibara, Nagase, Shima, Noda, Ninchoji, Kaito, Iijima: "The utility of urinary CD80 as a diagnostic marker in patients with renal diseases." in: **Scientific reports**, Vol. 8, Issue 1, pp. 17322, (2019) (PubMed).

Kolar, Mehta, Pelayo, Capra: "A novel human B cell subpopulation representing the initial germinal center population to express AID." in: **Blood**, Vol. 109, Issue 6, pp. 2545-52, (2007) (PubMed).

Bazil, Strominger: "Metalloprotease and serine protease are involved in cleavage of CD43, CD44, and CD16 from stimulated human granulocytes. Induction of cleavage of L-selectin via CD16." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 152, Issue 3, pp. 1314-22, (1994) (PubMed).

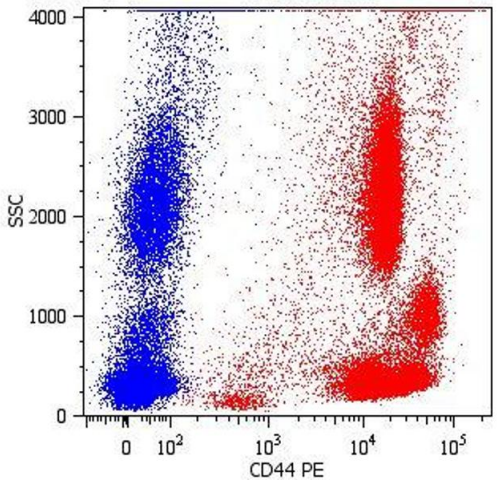
Stefanová, Hilgert, Bazil, Kristofová, Horejsí: "Human leucocyte surface glycoprotein CDw44 and lymphocyte homing receptor are identical molecules." in: **Immunogenetics**, Vol. 29, Issue 6, pp. 402-4, (1989) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood with anti-human CD44 (MEM-85) purified / GAM-APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD44 (MEM-85) PE.