Datasheet for ABIN638433

anti-CD147 antibody

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Overview

Quantity:	0.1 mg
Target:	CD147 (BSG)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD147 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Functional Studies (Func)

Product Details

Immunogen:	Protein A-CR purified soluble recombinant form of CD147, CD147Rg, which consists of the cDNA coding for the hinge region, CH2-and CH3 domain of human IgG1 (CD147Rg is secreted by transfectants as a dimmer).
Clone:	MEM-M6-6
Isotype:	IgG1
Specificity:	The antibody MEM-M6/6 recognizes extracellular Ig domain D2 (membrane proximal) of CD147 (Neurothelin), a 50-60 kDa type I transmembrane glycoprotein primarily expressed on all leukocytes, red blood cells, platelets and endothelial cells, it is not expressed by resting lymphocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Product Details

Endotoxin Level:	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

Target Details

Target:	CD147 (BSG)
Alternative Name:	CD147 (BSG Products)
Background:	Basigin (Ok blood group),CD147 (basigin, neurothelin, OX-47, 5A11, CE9, M6) also known as EMMPRIN (extracellular matrix metalloproteinase inducer) or TCSF (tumour cell-derived collagenase-stimulatory factor) is an ubiquitously expressed cell surface protein with multiple glycosylated forms. The highest level of CD147 expression is on metabolically active cells, such as lymphoblasts, inflammatory cells, brown adipocytes and malignant tumour cells. CD147 has multiple functions, including facilitating of cell surface expression of monocarboxylate transporter proteins and extracellular matrix metalloproteinases, regulation of integrin functions, it plays roles in cell development and activation, fetal development or retinal function.,Neurothelin, Basigin, LAM6, CSF, 5F7, TCSF, BSG, TCSF, Emprin, OK blood group
Gene ID:	682
UniProt:	P35613
Pathways:	S100 Proteins

Application Details

Application Notes:	Functional application: The antibody MEM-M6/6 (high-affinity mAb of unique epitope specificity) inhibits anti-CD3-induced T cell activation. Flow cytometry: recommended dilution: 1-4 µg/mL. Western blotting: Positive control: 293 human fibroblastoid cell line, non-reducing conditions.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	**Do not freeze.**
Storage:	4 °C

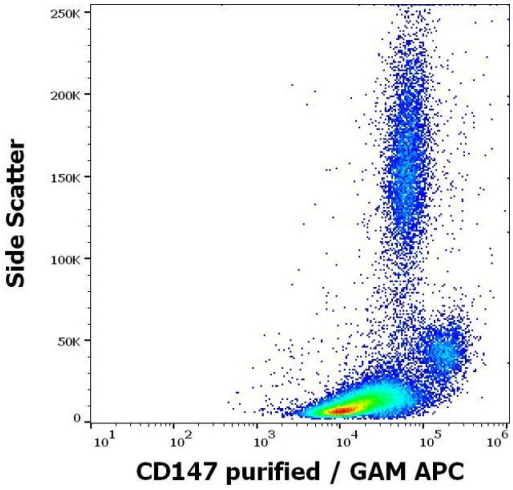
Handling

Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

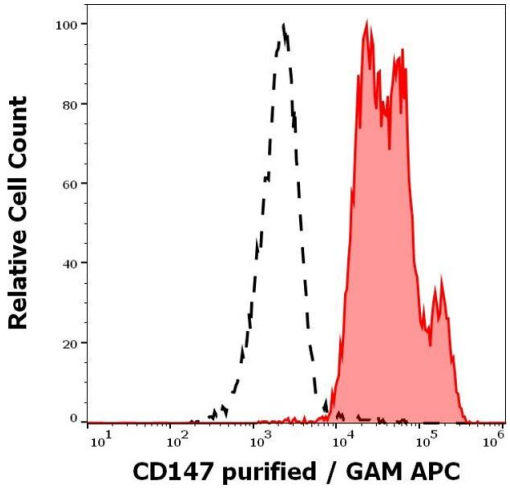
Product cited in:	Koch, Staffler, Hüttinger, Hilgert, Prager, Cerný, Steinlein, Majdic, Horejsí, Stockinger: "T cell activation-associated epitopes of CD147 in regulation of the T cell response, and their definition by antibody affinity and antigen density." in: **International immunology**, Vol. 11, Issue 5, pp. 777-86, (1999) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD147 (MEM-M6/6) purified antibody (concentration in sample 0.6 µg/mL, GAM APC).



Flow Cytometry

Image 2. Separation of leukocytes stained using anti-human CD147 (MEM-M6/6) purified antibody (concentration in sample 0.6 µg/mL, GAM APC, red-filled) from leukocytes cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).