Datasheet for ABIN6559819

anti-Angiotensin I Converting Enzyme 1 antibody

2 Images

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Overview

Quantity:	0.1 mg
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Angiotensin I Converting Enzyme 1 antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	dendritic cells
Clone:	5-369
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody 5-369 recognizes an extracellular epitope of CD143, a 171 kDa type I transmembrane glycoprotein with metallopeptidase activity, expressed mainly on endothelial cells.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

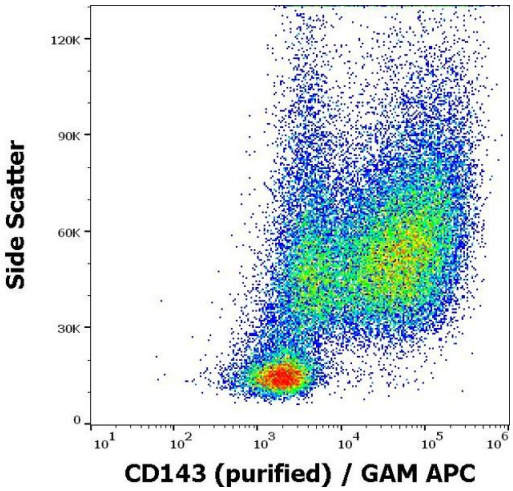
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Alternative Name:	CD143 (ACE Products)
Background:	Angiotensin I converting enzyme,CD143, also known as ACE (angiotensin-converting enzyme), carboxycathepsin, kininase II, peptidase P, or peptidyl dipeptidase 1, is a transmembrane zinc metallopeptidase catalyzing the conversion of angiotensin I into the physiologically active angiotensin II, which is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified, and two most abundant spliced variants encode the somatic form and the testicular form, that are equally active. CD143 is expressed mainly on endothelial cells, but it can be found also e.g. on activated macrophages and histiocytes.,DCP, ACE1, DCP1, carboxycathepsin, kininase II, peptidase P, peptidyl dipeptidase 1
Gene ID:	1636
UniProt:	P12821
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour, Smooth Muscle Cell Migration

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

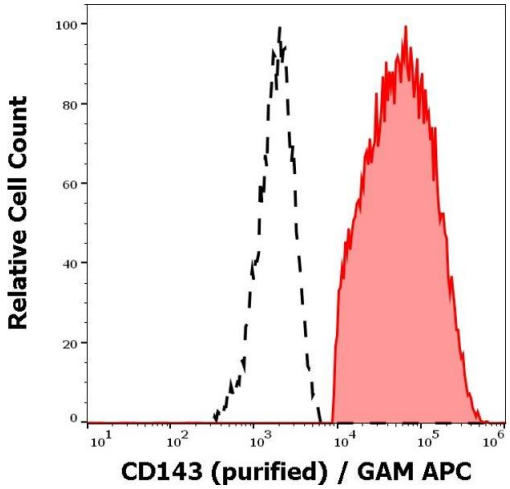
Handling

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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human GM-CSF + IL-4 stimulated peripheral blood mononuclear cells stained using anti-human CD143 (5-369) purified antibody (concentration in sample 0,6 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of human stimulated monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human GM-CSF + IL-4 stimulated peripheral blood mononuclear cells stained using anti-human CD143 (5-369) purified antibody (concentration in sample 0,6 µg/mL) GAM APC.