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30-2653: Anti-Human CD143 PE (Clone : 5-369)

Clonality :	Monoclonal
Clone Name :	5-369
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	ACE
Gene ID :	1636
Alternative Name :	DCP, ACE1, DCP1, carboxycathepsin, kininase II, peptidase P, peptidyl dipeptidase 1,angiotensin I converting enzyme
Isotype :	Mouse IgG1
Immunogen Information :	dendritic cells

Description

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.
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.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 ÃÂµl reagent / 100 ÃÂµl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.