SM1658F

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Monoclonal Antibody to ACE / CD143 - FITC

Alternate names: Angiotensin-converting enzyme, DCP, DCP1, Dipeptidyl carboxypeptidase I

Catalog No.: SM1658F

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Background: CD143 exists in two forms, a 170KD somatic form and a 90KD germinal form. The somatic form is expressed by endothelial cells (especially those of lung capillaries and arterioles), epithelial cells (especially in proximal renal tubules and small intestine), by some neuronal cells and variably by some macrophages and T lymphocytes. The germinal form is expressed by spermatozoa.

Uniprot ID: P12821

NCBI: NP_000780.1

GeneID: 1636

Host / Isotype: Mouse / IgG1

Clone: 9B9

Immunogen: Human lung CD143 (Angiotensin converting enzyme). Spleen cells from immunised Balb/c mice were fused with cells of the mouse X63 - Ag8 - 653 myeloma cell line.

Format:
State: Liquid purified IgG
Purification: Affinity chromatography on Protein G
Buffer System: Contains 0.09% Sodium Azide and 1% Bovine Serum Albumin
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications:
Flow cytometry.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

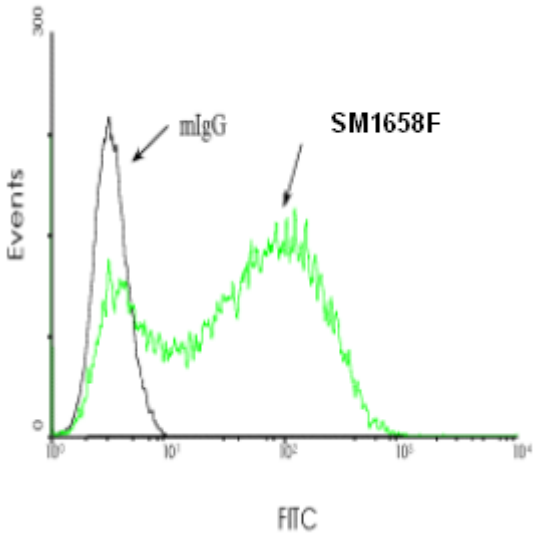
Specificity:
This antibody recognises CD143, also know as angiotensin - converting enzyme (ACE). This antibody recognises active ACE binding to an N-terminal domain epitope, different to that recognised by clone i2H5 (SM1656).
Species: Human, Monkey, Cat, Hamster, Rat.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General References:
1. Danilov, S. M. et al. (1994) Structure - Function analysis of angiotensin - converting enzyme using monoclonal antibodies. Selective inhibition of N-domain active center. J. Biol. Chem. 269: 26806 - 26814

2. Metzger, R. et al. (2000) CD143 in the development of atherosclerosis. Atherosclerosis. 150: 21 - 31
3. Danilov, S. et al. (1991) Lung is the target organ for a monoclonal antibody to angiotensin-converting enzyme. Lab. Invest. 64 (1): 118 - 124.

Pictures:



Staining of CHO cells transfected with human CD143 (ACE) with SM1658F.