SONY

Product Data Sheet

PE/Cy7 anti-human CD143 (Angiotensin-converting enzyme)

Catalog # / Size: 2321040 / 100 tests
2321035 / 25 tests

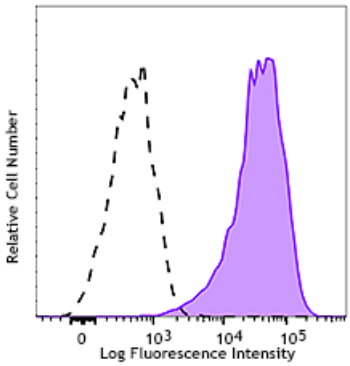
Clone: 5-369

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).



GM-CSF-stimulated human peripheral blood mononuclear cells (day-3) were stained with True-Stain Monocyte Blocker™ and CD143 (clone 5-369) PE/Cy7 (filled histogram) or mouse IgG1

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Application References:

1. Nakamura T, *et al.* 2009. *Int Heart J.* 50:501.
2. Jayasooriya AP, *et al.* 2008. *P. Natl. Acad. Sci. USA* 105:6531.
3. Jokubaitis VJ, *et al.* 2008. *Blood* 111:4055.
4. Arndt PG, *et al.* 2006. *J. Immunol.* 177:7233.
5. Balyasnikova IV, *et al.* 2002. *Biochem J.* 362:585.

Description: CD143 (ACE, kininase II, peptidyl dipeptidase 1, peptidase P, carboxycathepsin) is a 171 kD, type I, single chain transmembranal metallopeptidase, whose cofactor is zinc. Its main targets are angiotensin I and bradykinin, acting as a blood pressure regulator. CD143 is expressed in endothelial cells; varying amounts of CD143 have been reported in different epithelial cells. The activation of macrophages and histiocytes induces the expression of this molecule.

Antigen References:

1. Nakamura T, *et al.* 2009. *Int Heart J.* 50:501.
2. Jayasooriya AP, *et al.* 2008. *P. Natl. Acad. Sci. USA* 105:6531.
3. Jokubaitis VJ, *et al.* 2008. *Blood* 111:4055.
4. Arndt PG, *et al.* 2006. *J. Immunol.* 177:7233.
5. Balyasnikova IV, *et al.* 2002. *Biochem J.* 362:585.

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