

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

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

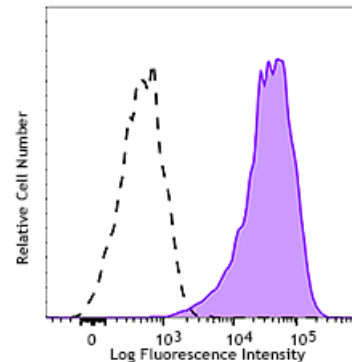
**Clone:** 5-369

**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.
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