

# Product Data Sheet

## PE anti-human CD143 (Angiotensin-converting enzyme)

**Catalog # / Size:** 344203 / 25 tests  
344204 / 100 tests

**Clone:** 5-369

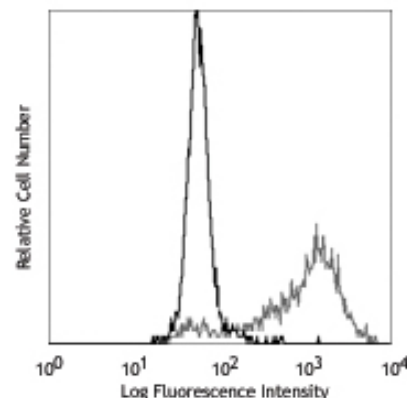
**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human

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

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

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



GM-CSF-stimulated human monocytes (day-3) stained with the 5-369 PE (gated in CD14+ cell population)

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Description:** CD143 (ACE, kininase II, peptidyl dipeptidase 1, peptidase P, carboxypeptidase) is a 171 kD, type I, single chain transmembrane metalloproteinase, 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.

**Related Products:**

<b>Product</b>	<b>Clone</b>	<b>Application</b>
PE Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.