

## FITC anti-human CD105

**Catalog # / Size:** 323203 / 25 tests  
323204 / 100 tests

**Clone:** 43A3

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

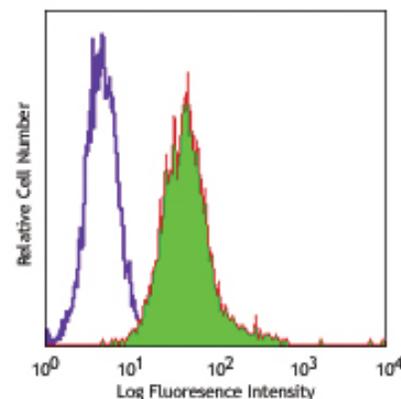
**Immunogen:** L-cells transfected with human CD105

**Reactivity:** Human

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

**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.**



Human monocytic cell line THP-1 stained with 43A3 FITC

## 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.

**Application References:**

- Bühring HJ, *et al.* 1991. *Leukemia* 5:841.
- Vogel W, *et al.* 2002. *Haematologica* 88:126.
- Oeztuerk-Winder F, *et al.* 2012. *EMBO J.* 31:3431. PubMed.
- Ishizaka R, *et al.* 2012. *Biomaterials.* 33:2109. PubMed.

**Description:** CD105 is also known as Endoglin. It is a type I integral membrane homodimer protein with subunits of 90 kD found on vascular endothelial cells and syncytiotrophoblasts of placenta. CD105 is weakly expressed on stromal fibroblasts. It is also expressed on activated monocytes and tissue macrophages. Expression of CD105 is increased on activated endothelium in tissues undergoing angiogenesis, such as in tumors, or in cases of wound healing or dermal inflammation. CD105 is a component of the TGF- $\beta$  receptor system in human umbilical vein endothelial cells and binds TGF- $\beta$ 1 and  $\beta$ 3 with high affinity but does not bind to TGF- $\beta$ 2.

**Antigen References:**

- Mason D, *et al.* Eds. 2002. *Leucocyte Typing VII.* Oxford University Press. New York.
- Pierelli L, *et al.* 2001. *Leuk. Lymphoma* 42:1195.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	FITC Mouse IgG1, $\kappa$ Isotype Ctrl (FC)	MOPC-21	FC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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