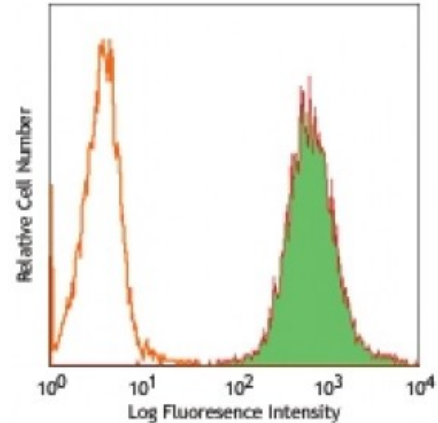


**Biotin anti-human CD105**

**Catalog # / Size:** 2216070 / 100 µg  
**Clone:** 43A3  
**Isotype:** Mouse IgG1, κ  
**Immunogen:** L-cells transfected with human CD105  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** 0.5



Human monocytic cell line THP-1 stained with biotinylated 43A3, followed by Sav-PE

**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  $\leq 2.0$  microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
- Application References:**
1. Bühring HJ, *et al.* 1991. *Leukemia* 5:841.
  2. Vogel W, *et al.* 2002. *Haematologica* 88:126.
  3. Gallouet AS, *et al.* 2014. *Clin Cancer Res.* 20:2663. [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-β receptor system in human umbilical vein endothelial cells and binds TGF-β1 and β3 with high affinity but does not bind to TGF-β2.

**Antigen References:**

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