

PE/Dazzle™ 594 anti-human CD105

Catalog # / Size: 2216120 / 100 tests
2216115 / 25 tests

Clone: 43A3

Isotype: Mouse IgG1, κ

Immunogen: L-cells transfected with human CD105

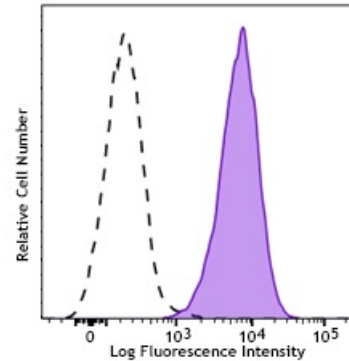
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: lot-specific



Human monocytic cell line THP-1 was stained with CD105 (clone 43A3) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ isotype control (open histogram).

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. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence microscopy⁴ and immunohistochemical staining³.

- Application References:**
1. Bühring HJ, *et al.* 1991. *Leukemia* 5:841.
 2. Vogel W, *et al.* 2002. *Haematologica* 88:126.
 3. Osaka M, *et al.* 2011. *Brain Res.* 9:1343. [PubMed](#)
 4. HonMou O, *et al.* 2011. *Brain.* 134:1790. [PubMed](#)
 5. Herrera MB, *et al.* 2013. *Hepatology.* 57:311. [PubMed](#)
 6. Iohara K, *et al.* 2014. *Exp Gerontol.* 52:39. [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** 1. Mason D, *et al.* Eds. 2002. Leucocyte Typing VII. Oxford University Press. New York.
- References:** 2. Pierelli L, *et al.* 2001. *Leuk. Lymphoma* 42:1195.