SONY

Product Data Sheet

PE anti-human CD105

Catalog # / Size: 2216030 / 100 tests
2216025 / 25 tests

Clone: 43A3

Isotype: Mouse IgG1, κ

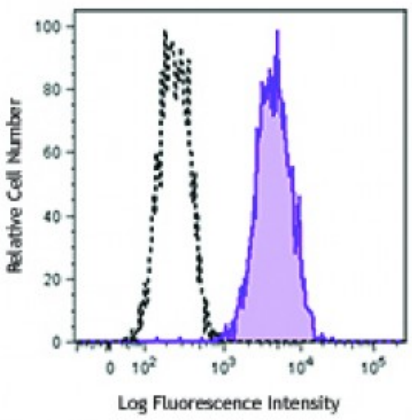
Immunogen: L-cells transfected with human CD105

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE 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).

Concentration: Lot-specific



Human mesenchymal stem cells were stained with CD105 (clone 43A3) PE (filled histogram) or mouse IgG1, κ PE 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. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. 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. 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 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.

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