

Product Data Sheet

Alexa Fluor® 647 anti-human CD105

Catalog # / Size: 323212 / 100 tests

Clone: 43A3

Isotype: Mouse IgG1, κ

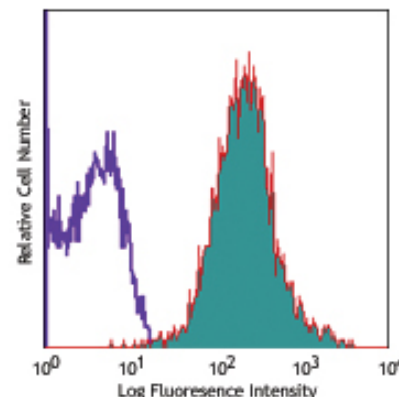
Immunogen: L-cells transfected with human CD105

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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 Alexa Fluor® 647

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application References:

1. Bühring HJ, *et al.* 1991. *Leukemia* 5:841.
2. Vogel W, *et al.* 2002. *Haematologica* 88:126.

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- β 1 and β 3 with high affinity but does not bind to TGF- β 2.

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.

Related Products:

Product
 Cell Staining Buffer
 Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 MOPC-21

Application
 FC, ICC, ICFC
 FC, IF
 FC, ICC, ICFC



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