

Product Data Sheet

Alexa Fluor® 488 anti-human/mouse CD49f

Catalog # / Size: 313607 / 25 tests

313608 / 100 tests

Clone: GoH3

Isotype: Rat IgG2a, κ

Immunogen: Mouse mammary tumor cells

Reactivity: Human, Mouse, Cross-Reactivity: Baboon, Chimpanzee, Capuchin Monkey,

Cynomolgus, Rhesus, Horse (Equine), Cattle (Bovine, Cow), Sheep (Ovine), Swine (Pig, Porcine), Dog (Canine), Cat (Feline), Rabbit (Lapine)

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

Alexa Fluor® 488 under optimal conditions. The solution is free of

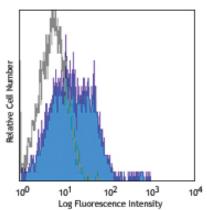
unconjugated Alexa Fluor® 488.

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 peripheral blood lymphocytes were stained with anti-human/mouse CD49f (clone GoH3) Alexa Fluor® 488 (filled histogram) or rat IgG2a, κ Alexa Fluor® 488 isotype control (open histogram).

Applications:

Applications: FC - Quality tested IHC, IF - Reported in the literature

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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

** 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 Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation 1,5 , *in vitro* and *in vivo* blocking of cell binding to laminin and blocking the function of integrin $\alpha_6^{1,4}$, and immunohistochemistry of acetone-fixed frozen

sections^{2,3,5}. The GoH3 antibody has been reported to block laminin binding *in vitro* and to block integrin α_6 function

in vivo.

Application References: 1. Georas SN, et al. 1993. Blood 82:2872. (IP, Block)

2. Honda T, et al. 1995. J. Clin. Endocrinol. Metab. 80:2899. (IHC)

Honda T, et al. 1995. J. Clin. Endocrinol. Metab. 80:2899. (IHC)
Sonnenberg A, et al. 1986. J. Histochem. Cytochem. 34:1037. (IHC)
Nakamura K, et al. 1997 Biochem. Biophys. Res. Commun. 235:524. (Block)
Sonnenberg A, et al. 1987 J. Biol. Chem. 262:10376. (IP, IHC)
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Horwitz KB, et al. 2008. Proc Natl Acad Sci USA. 105:5774. PubMed
Nardella C, et al. 2009. Sci Signal. 2:55. PubMed
Xu T, et al. 2010. Mol Cancer Ther. 9:438. PubMed
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Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

12. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

13. Grange C, et al. 2011. Cancer Res. 71:5346. PubMed 14. Lai KP, et al. 2012. Mol Endocrinol. 26:52. PubMed

15. Oeztuerk-Winder F, et al. 2012. EMBO J. 31:3431. (FC) PubMed

Description: CD49f is a 120 kD integrin family member also known as VLA-6 α chain and α_6 integrin subunit. CD49f associates with either integrin β_1 (CD29) or integrin β_4 (CD104) to form receptors (VLA-6 or $\alpha_6\beta_4$ complex) for laminin and kalinin. CD49f is expressed on platelets, monocytes, T cells, placental trophoblasts, epithelial and endothelial cells. CD49f is involved in adhesion and can act as a co-stimulatory molecule for T cell activation and proliferation.

Antigen References: 1. Sonnenberg A, et al. 1990. J. Cell Biol. 110:2145.

2. Sonnenberg A, et al. 1990. J. Cell. Sci. 96:207.

3. Aumailley M, et al. 1990. Exp. Cell Res. 188:55.

4. Niessen CM, et al. 1994. Exp. Cell Res. 211:360.

Related Products: Product Clone Application FC, ICC, ICFC Cell Staining Buffer



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RBC Lysis Buffer (10X) Alexa Fluor® 488 Rat IgG2a, κ Isotype Ctrl Human TruStain FcX™ (Fc Receptor Blocking Solution)

RTK2758

FC, ICFC FC, ICFC FC, ICC, ICFC



