

Alexa Fluor® 647 anti-human/mouse CD49f

Catalog # / Size: 313609 / 25 tests
313610 / 100 tests

Clone: GoH3

Isotype: Rat IgG2a, κ

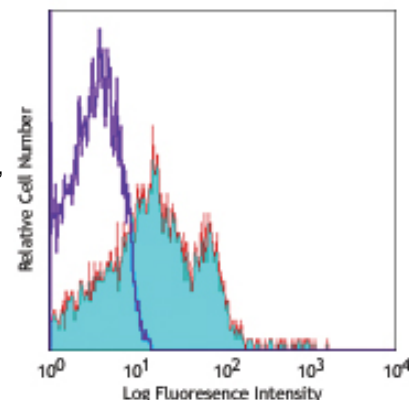
Immunogen: Mouse mammary tumor cells

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® 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 peripheral blood lymphocytes stained with GoH3 Alexa Fluor® 647

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 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 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 α_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:

- Georas SN, *et al.* 1993. *Blood* 82:2872. (IP, Block)
- 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)
- Deregibus MC, *et al.* 2007. *Blood* doi:10.1182/blood-2007-03-078709.
- 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
- Stapp MA, *et al.* 2007. *J Cell Sci.* 120:2851. PubMed
- Jo M, *et al.* 2010. *Cancer Res.* 70:8948. PubMed
- Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
- Grange C, *et al.* 2011. *Cancer Res.* 71:5346. PubMed
- Lai KP, *et al.* 2012. *Mol Endocrinol.* 26:52. PubMed
- 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:

- Sonnenberg A, *et al.* 1990. *J. Cell Biol.* 110:2145.
- Sonnenberg A, *et al.* 1990. *J. Cell. Sci.* 96:207.
- Aumailley M, *et al.* 1990. *Exp. Cell Res.* 188:55.
- Niessen CM, *et al.* 1994. *Exp. Cell Res.* 211:360.

Related Products: Product
Cell Staining Buffer

Clone

Application
FC, ICC, ICFC



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RBC Lysis Buffer (10X)
Alexa Fluor® 647 Rat IgG2a, κ Isotype Ctrl
Human TruStain FcX™ (Fc Receptor Blocking Solution)

RTK2758

FC, ICFC
FC, ICFC
FC, ICC, ICFC



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