

PE anti-human/mouse CD49f

Catalog # / Size: 313611 / 25 tests
313612 / 100 tests

Clone: GoH3

Isotype: Rat IgG2a, κ

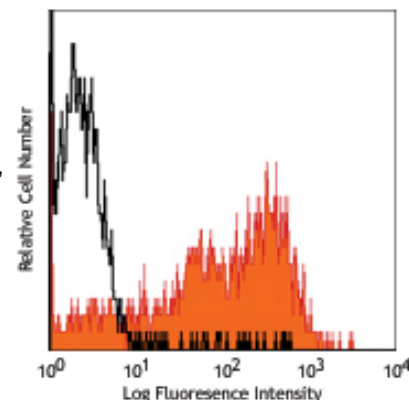
Immunogen: Mouse mammary tumor cells

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 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).

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 PE

Applications:

Applications: FC - Quality tested

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 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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
- Stepp 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	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	PE Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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