

Purified anti-human/mouse CD49f

Catalog # / Size: 313601 / 25 µg
313602 / 100 µg

Clone: GoH3

Isotype: Rat IgG2a, κ

Immunogen: Mouse mammary tumor cells

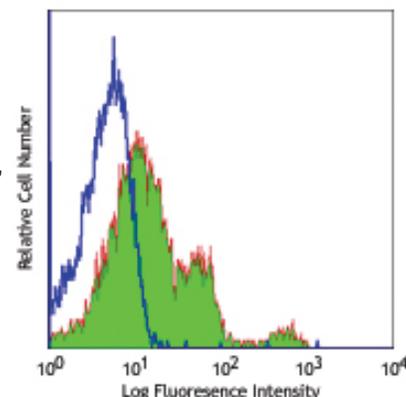
Reactivity: Human, Mouse, **Cross-Reactivity:** Baboon, Chimpanzee, Capuchin Monkey, Cynomolgus, Rhesus, Horse (Equine), Cattle (Bovine, Cow), Sheep (Ovine), Swine (Pig, Porcine), Dog (Canine), Cat (Feline), Rabbit (Lapine)

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified GoH3, followed by anti-rat IgGs FITC

Applications:

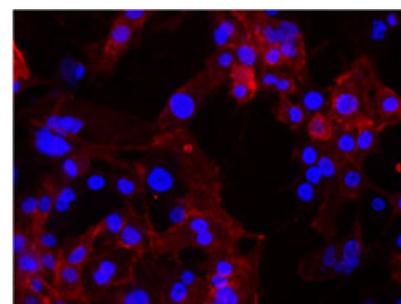
Applications: FC - Quality tested
IF - Validated
IHC, IP - Reported in the literature

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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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:

1. Georas SN, *et al.* 1993. *Blood* 82:2872. (IP, Block)
2. Honda T, *et al.* 1995. *J. Clin. Endocrinol. Metab.* 80:2899. (IHC)
3. Sonnenberg A, *et al.* 1986. *J. Histochem. Cytochem.* 34:1037. (IHC)
4. Nakamura K, *et al.* 1997 *Biochem. Biophys. Res. Commun.* 235:524. (Block)
5. Sonnenberg A, *et al.* 1987 *J. Biol. Chem.* 262:10376. (IP, IHC)
6. Deregibus MC, *et al.* 2007. *Blood* doi:10.1182/blood-2007-03-078709.
7. Horwitz KB, *et al.* 2008. *Proc Natl Acad Sci USA.* 105:5774. PubMed
8. Nardella C, *et al.* 2009. *Sci Signal.* 2:55. PubMed
9. Xu T, *et al.* 2010. *Mol Cancer Ther.* 9:438. PubMed
10. Stepp MA, *et al.* 2007. *J Cell Sci.* 120:2851. PubMed
11. Jo M, *et al.* 2010. *Cancer Res.* 70:8948. PubMed
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



MDA-MB-231 breast cancer cells were stained with anti-CD49f (clone GoH3) followed by DyLight™ 649 Goat anti-rat Ig secondary antibody (red), plus DAPI staining for nuclei (blue). Images were taken under 20x bin4 (Filter set: EX647/10x, Dichroic 665LP, EM 700/70x) at exposure 4s. Data provided by Er Liu and John Nolan, La Jolla Institute for Bioengineering.

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

FITC Goat anti-rat IgG (minimal x-reactivity)
HRP Goat anti-rat IgG (minimal x-reactivity)
PE Goat anti-rat IgG (minimal x-reactivity)
Cell Staining Buffer

Clone

Poly4054
Poly4054
Poly4054

Application

FC
ELISA, IF, IHC, WB
FC
FC, ICC, ICFC



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RBC Lysis Buffer (10X)
Purified Rat IgG2a, κ Isotype Ctrl

RTK2758

FC, ICFC
FC, ICC, IF, IHC, IP, WB



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