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## **Product Data Sheet**

## LEAF<sup>™</sup> Purified anti-human/mouse CD49f

Catalog # / Size:	313613 / 50 μg 313614 / 200 μg	
Clone:	GoH3	h.
Isotype:	Rat IgG2a, κ	
Immunogen:	Mouse mammary tumor cells	ŝ la Maria de la
Reactivity:	Human, Mouse, <b>Cross-Reactivity:</b> Baboon, Chimpanzee, Capuchin Monkey, Cynomolgus, Rhesus, Horse (Equine), Cattle (Bovine, Cow), Sheep (Ovine), Swine (Pig, Porcine), Dog (Canine), Cat (Feline), Rabbit (Lapine)	
Preparation:	The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.	ź M W.
Formulation:	0.2 $\mu$ m filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/ $\mu$ g of the protein (<0.01 ng/ $\mu$ g of the protein) as determined by the LAL test.	10 <sup>0</sup> 10 <sup>1</sup> 10 <sup>2</sup> 10 <sup>3</sup> 10
Concentration:	1.0 mg/ml	Log Fluoresence Intensity
Storage:	The antibody solution should be stored undiluted at 4°C. This LEAF <sup>™</sup> solution contains no preservative; handle under aseptic conditions.	Human peripheral blood lymphocytes stained with LEAF™ purified GoH3, followed by anti-rat IgG FITC

## **Applications:**

Applications:	FC - Quality tested IF - Validated IHC, IP, Block - Reported in the literature		
Recommended Usage:	Each lot of this antibody is quality control tested by immun staining with flow cytometric analysis. For immunofluoresc suggested use of this reagent is $\leq 0.5 \ \mu g$ per million cells in 100 $\mu$ l of whole blood. It is recommended that the reagent optimal performance for each application.	ent staining, the n 100 μl volume or	
Application Notes:	Additional reported applications (for the relevant formats) i immunoprecipitation <sup>1,5</sup> , <i>in vitro</i> and <i>in vivo</i> blocking of cell and blocking the function of integrin $\alpha_6^{1,4}$ , and immunohist acetone-fixed frozen sections <sup>2,3,5</sup> . The GoH3 antibody has block laminin binding <i>in vitro</i> and to block integrin $\alpha_6$ function	tochemistry of s been reported to	MDA-MB-231 breast cancer cells were stained with anti-CD49f (clone GoH3) followed by DyLight™ 649 Goat anti-rat Iq secondary antibody
Application References:	<ol> <li>Georas SN, et al. 1993. Blood 82:2872. (IP, Block)</li> <li>Honda T, et al. 1995. J. Clin. Endocrinol. Metab. 80:289</li> <li>Sonnenberg A, et al. 1986. J. Histochem. Cytochem. 34</li> <li>Nakamura K, et al. 1997 Biochem. Biophys. Res. Comm (Block)</li> <li>Sonnenberg A, et al. 1987 J. Biol. Chem. 262:10376. (IF</li> <li>Deregibus MC, et al. 2007. Blood doi:10.1182/blood-200</li> <li>Horwitz KB, et al. 2008. Proc Natl Acad Sci USA. 105: 8. Nardella C, et al. 2009. Sci Signal. 2:55. PubMed</li> <li>Xu T, et al. 2010. Mol Cancer Ther. 9:438. PubMed</li> <li>Stepp MA, et al. 2007. J Cell Sci. 120:2851. PubMed</li> <li>Stepp MA, et al. 2010. Cancer Res. 70:8948. PubMed</li> <li>Yoshino N, et al. 2011. Cancer Res. 71:5346. PubMed</li> <li>Grange C, et al. 2012. Mol Endocrinol. 26:52. PubMed</li> <li>Oeztuerk-Winder F, et al. 2012. EMBO J. 31:3431. (Fe)</li> </ol>	I:1037. (IHC) nun. 235:524. P, IHC) 07-03-078709. 5774. PubMed	(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 with either integrin $\beta_1$ (CD29) or integrin $\beta_4$ (CD104) to forr kalinin. CD49f is expressed on platelets, monocytes, T cel CD49f is involved in adhesion and can act as a co-stimulation of the constraint o	m receptors (VLA-6 or ls, placental trophobla	$\alpha_6 \beta_4$ complex) for laminin and usts, epithelial and endothelial cells.
Antigen References:	<ol> <li>Sonnenberg A, <i>et al.</i> 1990. <i>J. Cell Biol.</i> 110:2145.</li> <li>Sonnenberg A, <i>et al.</i> 1990. <i>J. Cell. Sci.</i> 96:207.</li> <li>Aumailley M, <i>et al.</i> 1990. <i>Exp. Cell Res.</i> 188:55.</li> <li>Niessen CM, <i>et al.</i> 1994. <i>Exp. Cell Res.</i> 211:360.</li> </ol>		
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FC, ICC, ICFC FC, ICFC, WB, IP, ICC, IF, IHC, FA



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