

**MOUSE ANTI-INTEGRIN alpha4  
ALEXA FLUOR<sup>®</sup> 488 CONJUGATED  
MONOCLONAL ANTIBODY**

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<b>CATALOG NUMBER:</b>	<b>MAB16983X</b>	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	1 mg/mL
<b>CLONE NAME:</b>	P1H4	<b>HOST/ISOTYPE:</b>	Ms IgG <sub>1</sub>
<b>ALTERNATE NAMES:</b>	CD49d		
<b>BACKGROUND:</b>	The involvement of integrins in vascular proliferation, adhesion, and wound repair and have been well-documented. The integrin family of cell adhesion receptors consists of at least 16 membrane-associated heterodimers, composed of an alpha and beta subunit that associate in a non-covalent manner. The structure and functional diversity of the integrin family are based upon the pairing abilities of the individual alpha and beta subunits.		
<b>SPECIFICITY:</b>	The antibody is reactive with integrin alpha4 from human and primate species.		
<b>APPLICATIONS:</b>	<u>Immunofluorescence:</u> 2 µg/mL <u>Flow cytometry</u> <i>Optimal working dilutions must be determined by the end user.</i>		
<b>SPECIES REACTIVITY:</b>	Human and primate. Reactivity with other species is not confirmed.		
<b>IMMUNOGEN:</b>	Human T lymphocytes		
<b>PRESENTATION:</b>	Purified immunoglobulin conjugated to Alexa Fluor <sup>®</sup> 488. Liquid in PBS containing 1% BSA, 0.05% Tween <sup>®</sup> -20 and 0.05% sodium azide.		
<b>STORAGE/HANDLING:</b>	Maintain at 2°-8°C for up to 12 months from date of receipt.		
<b>REFERENCES:</b>	Nguyen TTB, Ward JPT and Hirst SJ. (2005). Beta1-integrins mediate enhancement of human airway smooth muscle proliferation by collagen and fibronectin. <i>Am J Resp Crit Care Med.</i> <b>171(3)</b> : 217-223.  Dorfleutner, A et al. (2004). Cross-talk of Integrin alpha3beta1 and Tissue Factor in Cell Migration. <i>Mol Biol Cell</i> <b>15(10)</b> : 4416-4425.  Midwood, KS et al. (2004). Easy and Efficient Bonding of Biomolecules to an Oxide Surface of Silicon. <i>Langmuir</i> <b>20</b> : 5501-5505.  Casey, RC et al. (2003). Establishment of an in vitro assay to measure the invasion of ovarian carcinoma cells through mesothelial cell monolayers. <i>Clin Exp Med</i> <b>20(4)</b> : 343-356.  Crook, MF et al. (2002). Both ICAM-1- and VCAM-1-Integrin Interactions Are Important in Mediating Monocyte Adhesion to Human Saphenous Vein. <i>J Vasc Res</i> <b>39</b> : 221-229.  Pinco, KA et al. (2002). α4β1 Integrin Regulates Lamellipodia Protrusion via a Focal Complex/Focal Adhesion-independent Mechanism. <i>Mol Biol Cell</i> <b>13(9)</b> : 3203-3217.		

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Ahmed, N et. al. (2002). Association between alphavbeta6 integrin expression, elevated p42/44 kDa MAPK, and plasminogen-dependent matrix degradation in ovarian cancer.. *J. Cell Biochem* **84(4)**: 675-686.

Wattam, B. et.al. (2001). Arg-Tyr-Arg (RYD) and Arg-Cys-Asp (RCD) motifs in dendroaspin promote selective inhibition of beta 1 and beta 3 integrins. *Biochem. J.* **356**: 11-17.

Kim, JE et al (2000). Identification of Motifs for Cell Adhesion within the Repeated Domains of Transforming Growth Factor--induced Gene, ig-h3. *J Biol Chem* **275(40)**: 30907-30915.

Guerrero, CA et al (2000). Integrin v3 mediates rotavirus cell entry . *PNAS, USA* **97(26)**: 14644-14649.

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**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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