

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\alpha$ 4/CD49d in direct ELISA. In a sandwich immunoassay, this antibody detects the human Integrin $\alpha$ 4 $\beta$ 1 heterodimer when used with the suggested detection antibody, Mouse Anti-Human Integrin $\beta$ 1 (Catalog # MAB17784).
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 599904
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human Integrin $\alpha$ 4/CD49d Tyr34-Gln970 (Arg591Leu & Arg878Gln) Accession # P13612
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

<b>ELISA</b>	This antibody functions as an ELISA capture antibody the human Integrin $\alpha$ 4 $\beta$ 1 heterodimer when paired with Mouse Anti-Human Integrin $\beta$ 1 Monoclonal Antibody (Catalog # MAB17784).  <i>This product is intended for assay development on various assay platforms requiring antibody pairs.</i>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

The  $\alpha$ 4 subunit, also known as CD49d and VLA-4  $\alpha$  subunit, forms heterodimers with Integrin  $\beta$ 1 (CD29) or  $\beta$ 7. Integrins  $\alpha$ 4 $\beta$ 1 and  $\alpha$ 4 $\beta$ 7 are receptors for fibronectin and VCAM. Integrin  $\alpha$ 4 $\beta$ 1 also binds the mucosal addressin cell adhesion molecule (MAdCAM-1).