

## DESCRIPTION

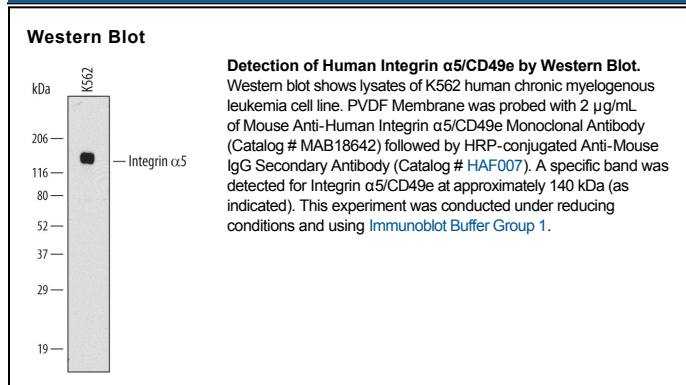
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\alpha 5$ /CD49e in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse Integrin $\alpha 5$ , recombinant human (rh) Integrin $\alpha 1$ , 2, 3, 4, 6, 7x2, 8, 9, 10, 11, M, X, D, or rhIntegrin $\beta 1$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 612557
<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 $\alpha 5$ /CD49e Phe42-Tyr995 Accession # P08648
<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 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	2 $\mu$ g/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<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

Integrin  $\alpha 5$ , also known as CD49e and vitronectin receptor subunit  $\alpha$ , is a 140-150 kDa integrin alpha chain that forms dimers with at least five beta chains including  $\beta 1$ , 3, 5, 6, and 8. It is a 1018 amino acid (aa) residue type I membrane protein with a large (962 aa) extracellular domain (ECD) and a short (32 aa) cytoplasmic tail. The N-terminal region of Integrin  $\alpha 5$ , which is important for ligand binding, contains seven FG-GAP (phenylalanyl-glycyl and glycyl-alanyl-prolyl) consensus repeats that fold into a  $\beta$ -propeller domain. Furin cleavage of the Integrin  $\alpha 5$  ECD occurs after Gly 889, generating a disulfide-linked, heteromeric subunit Integrin  $\alpha 5$  chain. Integrin  $\alpha 5$ -containing integrins bind multiple ECM molecules, including Vitronectin, Osteopontin, MMP-2, and TSP. The ECD of human Integrin  $\alpha 5$  shares 92% aa sequence identity with mouse Integrin  $\alpha 5$  ECD.