

DESCRIPTION

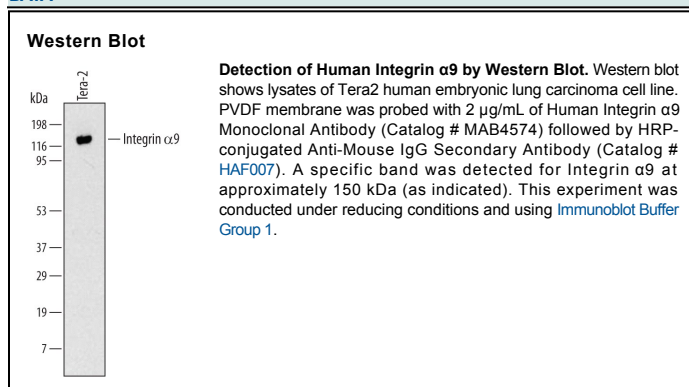
Species Reactivity	Human
Specificity	Detects human Integrin $\alpha 9$ in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Integrin $\alpha 1$, 2, 2b, 3, 4, 5, 6, 6 (x1), 8, 10, 11, D, E, L, M, V, X, recombinant mouse Integrin $\alpha 7$ (x2) or 9 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 560201
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Integrin $\alpha 9$ Val89-Leu169 Accession # Q13797
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ 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
Western Blot	2 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Integrin $\alpha 9$ is a 150 kDa type I transmembrane glycoprotein that is widely expressed and is found on smooth muscle, keratinocytes, skeletal muscle and hepatocytes. It principally associates with the $\beta 1$ Integrin. $\alpha 9\beta 1$ binds to VEGF-C and D, and osteopontin. The 951 amino acid (aa) extracellular domain of mouse Integrin $\alpha 9$ contains three β -propeller repeats and multiple PheGly-GlyAlaPro repeats. A potential proteolytic cleavage site in human $\alpha 9$ ECD is absolutely conserved in mouse $\alpha 9$ ECD (Arg 566-Val 567). The ECD of mouse Integrin $\alpha 9$ shares 95% and 89% aa sequence identity to rat and human Integrin $\alpha 9$, respectively.