

Human Integrin α9 Antibody

Monoclonal Mouse IgG₁ Clone # 560201 Catalog Number: MAB4574

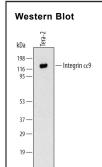
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Integrin α9 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Integrin α1, 2 2b, 3, 4, 5, 6, 6 (x1), 8, 10, 11, D, E, L, M, V, X, recombinant mouse Integrin α7 (x2) or 9 is observed.	
Source	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 α9 Val89-Leu169 Accession # Q13797	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm 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 μg/mL	See Below

DATA



Detection of Human Integrin α9 by Western Blot. Western blot shows lysates of Tera2 human embryonic lung carcinoma cell line. PVDF membrane was probed with 2 μ g/mL of Human Integrin α 9 Monoclonal Antibody (Catalog # MAB4574) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Integrin $\alpha 9$ at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.	
	 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 β1 Integrin. α9β1 binds to VEGF-C and D, and osteopontin. The 951 amino acid (aa) extracellular domain of mouse Integrin α9 contains three β-propellor repeats and multiple PheGly-GlyAlaPro repeats. A potential proteolytic cleavage site in human α9 ECD is absolutely conserved in mouse α9 ECD (Arg 566-Val 567). The ECD of mouse Integrin α9 shares 95% and 89% aa sequence identity to rat and human Integrin α9, respectively.

