

# **Human Integrin α9 Antibody**

Monoclonal Mouse IgG<sub>1</sub> 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 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 <sub>1</sub> Clone # 560201	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-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 either lyophilized or as a 0.2 µm filtered solution in PBS.	

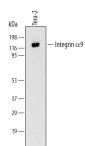
#### **APPLICATIONS**

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

# Western Blot



Detection of Human Integrin  $\alpha 9$  by Western Blot. Western blot shows lysates of Tera2 human embryonic lung carcinoma cell line. PVDF membrane was probed with 2  $\mu$ g/mL of Human Integrin  $\alpha 9$  Monoclonal Antibody (Catalog # MAB4574) followed by HRP-conjugated 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.
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>
	1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 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  $\beta$ -propellor 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% as sequence identity to rat and human Integrin  $\alpha 9$ , respectively.

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