Human Integrin α9 Antibody

Monoclonal Mouse IgG_1 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	*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 as a 0.2 µm filtered solution in PBS.

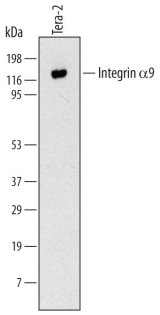
APPLICATIONS

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 α9 by Western Blot. Western blot shows lysates of Tera2 human embryonic lung carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Human Integrin α9 Monoclonal Antibody (Catalog # MAB4574) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Integrin α9 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 α9 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.

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