Mouse Integrin α9 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3827

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin α9 in direct ELISAs and Western blots. In direct ELISAs, less than 25% cross-reactivity with recombinant human Integrin α9 is observed and less than 5% cross-reactivity with recombinant mouse Integrin α3 and α4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Integin α9 Try31-Val979 Accession # NP_598482
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.

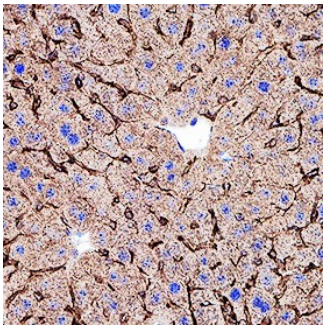
APPLICATIONS

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	0.1 µg/mL	Recombinant Mouse Integrin α9
Flow Cytometry	2.5 µg/10^6 cells	D3 mouse embryonic stem cell line
Immunohistochemistry	1-15 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Immunohistochemistry



Integrin alpha 9 in Mouse Liver Tissue. Integrin a9 was detected in perfusion fixed frozen sections of mouse liver tissue using Goat Anti-Mouse Integrin a9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3827) at 1 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # Catalog # CTS013). Tissue was stained using the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (brown; Catalog # Catalog # VC004) and counterstained with hematoxylin (blue). Specific staining was localized to bile canaliculi. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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, VEGF-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 (Arg566-Val567). The ECD of mouse integrin α9 shares 95% and 89% aa sequence identity to rat and human integrin α9, respectively.

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