

Human Laminin α1 N-Terminus Domain VI Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4187

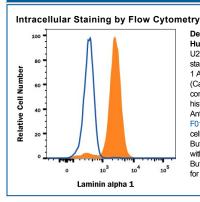
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Laminin α1 N-Terminus Domain VI in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse LAMA4 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human Laminin α1 N-Terminus Domain VI Leu22-Met269 Accession # P25391		
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 Human Laminin α1 N-Terminus Domain VI
Immunohistochemistry	5-15 μg/mL	Immersion fixed frozen sections of mouse embryo (E10)
Intracellular Staining by Flow Cytometry	0.25 μg/10 ⁶ cells	See Below

DATA



Detection of Laminin alpha 1 in U2OS Human Cell Line by Flow Cytometry. U2OS human osteosarcoma cell line was stained with Goat Anti-Human Laminin alpha 1 Antigen Affinity-Purified Polyclonal Antibody (Catalog # AF-4187, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by APC-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

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

Laminin subunit $\alpha 1$ (LAMA1) is a secreted 400 kDa extracellular matrix glycoprotein that contributes to the formation of basement membrane Laminin isoforms 1 and 3. It is one of three subunits (α , β , and γ) that interact via their coiled-coil domains to form the approximately 800 kDa cruciform, disulfide-linked, Laminin heterotrimer. The 3058 amino acid (aa) residue mature human $\alpha 1$ chain contains an N-terminal Laminin VI domain (aa 18-269), followed by domains V through III containing 17 EGF-like repeats, the coiled-coil domains II and I, and five globular, Laminin G-like domains. Over aa 22-269, human Laminin $\alpha 1$ shares 95% and 91% aa sequence identity with canine and mouse $\alpha 1$ chain, respectively.

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