

DESCRIPTION

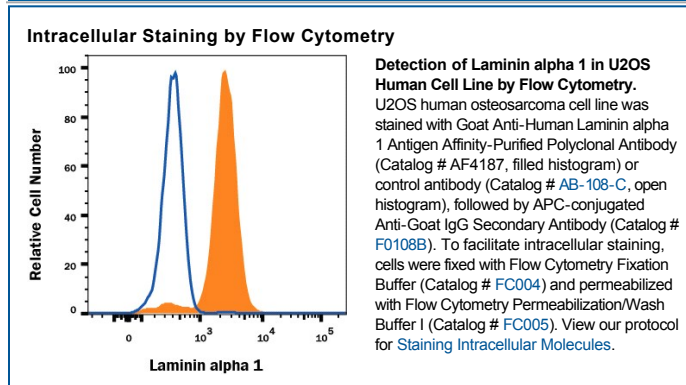
Species Reactivity	Human
Specificity	Detects human Laminin α 1 N-Terminus Domain VI in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse LAMA4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Laminin α 1 N-Terminus Domain VI Leu22-Met269 Accession # P25391
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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 μ g/mL	Recombinant Human Laminin α 1 N-Terminus Domain VI
Immunohistochemistry	5-15 μ g/mL	Immersion fixed frozen sections of mouse embryo (E10)
Intracellular Staining by Flow Cytometry	0.25 μ g/ 10^6 cells	See Below

DATA



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. <ul style="list-style-type: none"> ● 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 α 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 α 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 α 1 shares 95% and 91% aa sequence identity with canine and mouse α 1 chain, respectively.