

DESCRIPTION

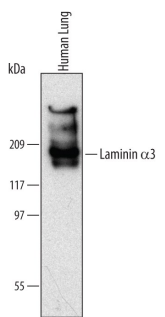
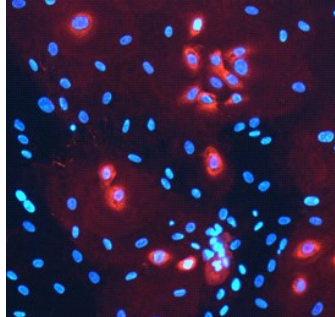
Species Reactivity	Human
Specificity	Detects human Laminin α 3/Laminin-5 in direct ELISAs and Western blots. In direct ELISAs, no cross reactivity with recombinant human Laminin α 1, β 1, γ 2, or recombinant mouse Laminin α 4 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 546215
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Laminin α 3/Laminin-5 aa 21-1713 Accession # NP_000218
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 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	2 μ g/mL	See Below
Immunocytochemistry	8-25 μ g/mL	See Below
Immunoprecipitation	25 μ g/mL	Conditioned cell culture medium spiked with Recombinant Human Laminin α 3, see our available Western blot detection antibodies

DATA

<p>Western Blot</p>  <p>Detection of Human Laminin α3/Laminin-5 by Western Blot. Western blot shows lysates of human lung tissue. PVDF Membrane was probed with 2 μg/mL of Mouse Anti-Human Laminin α3/Laminin-5 Monoclonal Antibody (Catalog # MAB21441) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Laminin α3/Laminin-5 at approximately 190 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>Laminin α3/Laminin-5 in NHEK Human Cell Line. Laminin α3/Laminin-5 was detected in immersion fixed NHEK human normal epidermal keratinocytes treated with 10ng/mL Recombinant Human TGF-β1 (Catalog # 240-B) for 24 hours using Mouse Anti-Human Laminin α3/Laminin-5 Monoclonal Antibody (Catalog # MAB21441) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the perinuclear space. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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 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

Laminins are heterotrimeric, noncollagenous glycoproteins composed of α , β , and γ chains. Through interactions with integrins, dystroglycan and other receptors, laminins contribute to cell differentiation, cell shape and migration, and maintenance of tissue phenotypes and survival. Laminin α 3/Laminin-5, also known as epiligrin, includes α 3, β 3, and γ 2 subunits. It is abundant in transitional epithelium, stratified squamous epithelia, lung mucosa and other epithelial glands and contributes to initiation and maintenance of epithelial cell anchorage to the underlying connective tissue. Within aa 21-1713 of the α 3 subunit, human and mouse share 77% amino acid sequence identity.