

# Human Laminin $\alpha$ 3/Laminin-5 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 546215

Catalog Number: IC21441T

100  $\mu$ g

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Laminin $\alpha$ 3/Laminin-5 in direct ELISAs and Western blots. In direct ELISAs, no cross reactivity with recombinant human (rh) Laminin $\alpha$ 1, $\beta$ 1, $\gamma$ 2, or recombinant mouse Laminin $\alpha$ 4 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 546215
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human Laminin $\alpha$ 3/Laminin-5 aa 21-1713 Accession # NP_000218
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	U2OS Human cell line fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Laminins are heterotrimeric, noncollagenous glycoproteins composed of  $\alpha$ ,  $\beta$ , and  $\gamma$  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  $\alpha$ 3/Laminin-5, also known as epiligrin, includes  $\alpha$ 3,  $\beta$ 3, and  $\gamma$ 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  $\alpha$ 3 subunit, human and mouse share 77% amino acid sequence identity.

## PRODUCT SPECIFIC NOTICES

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