## RD SYSTEMS a biotechne brand

## Human Laminin α1 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG<sub>2A</sub> Clone # 775016 Catalog Number: IC4187R 100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Laminin α1 in direct ELISAs.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 775016
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli-</i> derived recombinant human Laminin α1 Leu22-Met269 Accession # P25391
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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		
Flow Cytometry	0.25-1 µg/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			
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Protect from light. Do not freeze.  12 months from date of receipt, 2 to 8 °C as supplied.		

## 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 ( $\alpha$ ,  $\beta$ , and  $\gamma$ ) 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.

## PRODUCT SPECIFIC NOTICES

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Rev. 5/20/2020 Page 1 of 1



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