

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Laminin α4 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Laminin alpha 4 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 775830
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Laminin α4 Gln826-Ala1816 (predicted) Accession # P97927
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

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

Laminins are heterotrimeric glycoproteins and are major components of the basement membrane. Each laminin is comprised of a single α, β, and γ chain that heterotrimerize via their coiled-coil domains to form a large cruciform-shaped molecule. Mature Laminin α4 is a subunit of Laminin 411, Laminin 421, and Laminin 423. Mature Laminin α4 is a 1792 amino acid (aa) residue protein that has a Laminin N-terminal domain, four Laminin EGF-like domains, the coiled-coil domain, and five C-terminal tandem Laminin G-like domains. The G-like domains contain binding sites for integrin, heparin, and dystroglycan. Within the region used as immunogen, mouse Laminin α4 shows 91% and 97% aa sequence identity with human and rat Laminin α4, respectively.

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