

## Product datasheet for **TA389160**

### LAMC1 Mouse Antibody [Clone ID: M046]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	M046
Applications:	ICC, WB
Recommended Dilution:	<b>WB:</b> 1:1000 <b>ICC:</b> 1:200
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Immunogen:	Clone (M046) was generated from a recombinant human laminin 521 protein that includes a heterotrimer of three subunits laminin $\alpha$ 5, laminin $\beta$ 2, and laminin $\gamma$ 1 subunits.
Specificity:	Clone M046 detects native laminin isoforms that include both laminin $\beta$ 2 and $\gamma$ 1 subunits. In native immunoblots, the antibody detects laminin 521, laminin 221, and laminin 121, but does not detect laminin 332 and laminin 411. The antibody weakly detects laminin 511. This antibody can be used for immunocytochemical detection of laminin $\beta$ 2/ $\gamma$ 1 subunits, and can also be used for detection of native laminin isoforms in immunoblots and ELISA.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN <sub>3</sub> and 50% glycerol
Concentration:	lot specific
Purification:	Protein A Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	760
Database Link:	<a href="#">P11047</a>



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**Background:**

The human basal lamina contains Collagen Type IV, proteoglycans, and glycoproteins. Laminin is a high molecular weight (850 kDa) oligomer, consisting of three different chains laminin alpha ( $\alpha$ ), beta ( $\beta$ ), and gamma ( $\gamma$ ) joined by disulfide bonds. The structure of human laminins include two helical domains (I & II) at the COOH-terminal, a laminin IV domain, multiple EGF-like repeats, and a laminin globular domain (G), as well as an N-terminal domain VI. Domains IV and VI are the binding sites for collagen and heparan sulfate, respectively. Several isoforms have been identified for the genes of each chain including 5 alpha chains, 4 beta chains, and 3 gamma chains. Laminin  $\beta$ 2 and  $\gamma$ 1 are found in laminin 121, laminin 221, laminin 421, and laminin 521. The expression of the Laminin subunits is found in the basal lamina of tissues. Here, the protein interacts with other extracellular matrix components to mediate cell attachment, migration and organization during embryonic development.

**Note:**

Protein G purified tissue culture supernatant.