

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Laminin $\alpha$ 4 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Laminin $\alpha$ 4 Gln826-Ala1816 Accession # P97927
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m filtered solution in PBS.

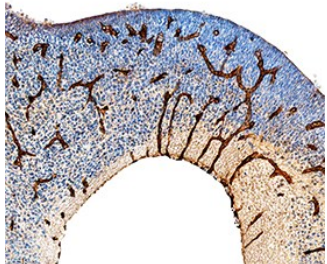
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Mouse Laminin $\alpha$ 4
<b>Immunohistochemistry</b>	5-15 $\mu$ g/mL	See Below

**DATA**

**Immunohistochemistry**



**Laminin  $\alpha$ 4 in Mouse Embryo.** Laminin  $\alpha$ 4 was detected in immersion fixed frozen sections of mouse embryo (13 d.p.c.) using Goat Anti-Mouse Laminin  $\alpha$ 4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3837) at 3  $\mu$ g/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to membranes in blood vessels in CNS. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Laminins are heterotrimeric glycoproteins and are major components of the basement membrane. Each laminin is comprised of a single  $\alpha$ ,  $\beta$ , and  $\gamma$  chain that heterotrimerize via their coiled-coil domains to form a large cruciform-shaped molecule. Mature Laminin  $\alpha$ 4 is a subunit of Laminin 411, Laminin 421, and Laminin 423. Mature Laminin  $\alpha$ 4 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  $\alpha$ 4 shows 91% and 97% aa sequence identity with human and rat Laminin  $\alpha$ 4, respectively.