

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects the Hep-1 heparin binding domain of mouse Laminin A/alpha 1 subunit (1).
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # AL-4
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Purified fragment of chymotrypsin-digested mouse EHS tumor-derived Laminin-1
<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.

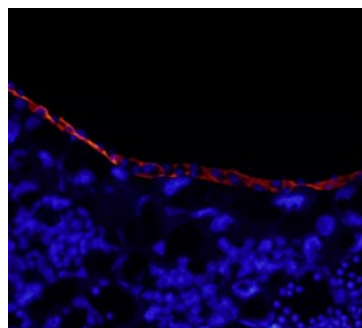
## APPLICATIONS

**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.

	Recommended Concentration	Sample
<b>Immunohistochemistry</b>	8-25 $\mu$ g/mL	See Below
<b>Western Blot</b>	Skubitz, A.P. <i>et al.</i> (1987) Exp. Cell Res. <b>173</b> :349. This application was not tested by R&D Systems.	

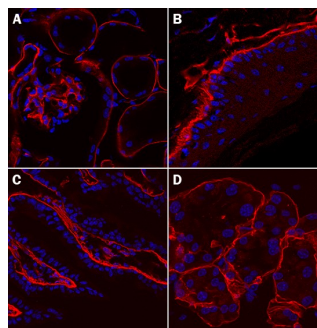
## DATA

### Immunohistochemistry



**Laminin  $\alpha 1$  in Embryonic Mouse Decidua.** Laminin  $\alpha 1$  was detected in immersion fixed frozen sections of embryonic mouse decidua (E10.5) using 10  $\mu$ g/mL Rat Anti-Mouse Laminin  $\alpha 1$  Monoclonal Antibody (Catalog # MAB4656) overnight at 4 °C. Tissue was stained with the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

### Immunohistochemistry



**Laminin  $\alpha 1$  in Mouse Kidney, Skin, Intestine, and Skeletal Muscle.** Laminin  $\alpha 1$  was detected in perfusion fixed frozen sections of mouse kidney glomeruli (panel A), skin (panel B), intestine (panel C), and skeletal muscle (panel D) using Rat Anti-Mouse Laminin  $\alpha 1$  Monoclonal Antibody (Catalog # MAB4656) at 10  $\mu$ g/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 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, non-collagenous 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, maintenance of tissue phenotypes, and survival. Laminin-1 is comprised of  $\alpha 1$ ,  $\beta 1$ , and  $\gamma 1$  subunits.

### References:

1. Skubitz, A.P. *et al.* (1988) J. Biol. Chem. **263**:4861.
2. Skubitz, A.P. *et al.* (1987) Exp. Cell Res. **173**:349.