**Species Reactivity**

Mouse

**Specificity**

Detects mouse Reg3B in direct ELISAs and Western blots. In direct ELISAs, approximately 75% cross-reactivity with recombinant rat (rr) Reg3B is observed. In Western blots approximately 30% cross-reactivity with rrReg3B is observed. In direct ELISAs and Western blots, less than 1% cross-reactivity with rrReg3A, recombinant mouse (rm) Reg3A, and rmReg3G is observed.

**Source**

Polyclonal Sheep IgG

**Purification**

Antigen Affinity-purified

**Immunogen**

E. coli-derived recombinant mouse Reg3B

Glu27-Gly175

Accession # P35230

**Formulation**

Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm 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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Recombinant Mouse Reg3B</td>
<td>0.1 μg/mL</td>
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<tr>
<td>Immunohistochemistry</td>
<td>5-15 μg/mL</td>
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</table>

**DATA**

**Immunohistochemistry**

Reg3B in Mouse Small Intestine. Reg3B was detected in immersion fixed frozen sections of mouse small intestine using 10 μg/mL Sheep Anti-Mouse Reg3B Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5110) overnight at 4 °C. Tissue was stained with the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

**PREPARATION AND STORAGE**

- **Reconstitution**: Reconstitute at 0.2 mg/mL in sterile PBS.
- **Shipping**: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- **Stability & Storage**: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
  - 12 months from date of receipt, -20 to -70 °C as supplied.
  - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
  - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Reg3B (regenerating islet-derived protein III beta; also PAP-I and HIP) is a secreted, 17 kDa member of the Reg gene family, C-type lectin gene superfamily. It is found in pancreatic acinar cells, intestinal enterocytes and developing spinal motoneurons. Reg3B may play a role in intestinal epithelial cell renewal. The mouse Reg3B precursor is 175 amino acids (aa) in length. It contains a 26 aa signal sequence plus a 149 aa mature region that possesses one C-type lectin domain (aa 38-173). Mature mouse Reg3B is 59%, 71% and 51% aa identical to the products of three other Reg3 named genes termed RegA, G, and D, respectively. Mature mouse Reg3B is also 91% and 87% aa identical to rat and human Reg3B, respectively.