

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	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.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Reg3B Glu27-Gly175 Accession # P35230
<b>Formulation</b>	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.

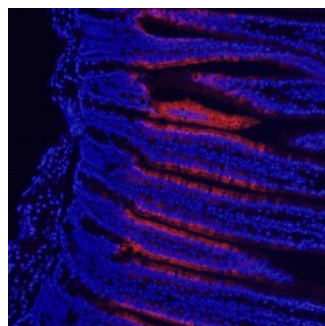
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Mouse Reg3B
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## 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

<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

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 67% aa identical to rat and human Reg3B, respectively.