

DESCRIPTION

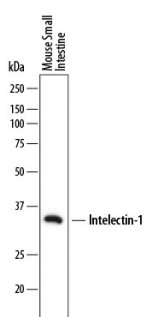
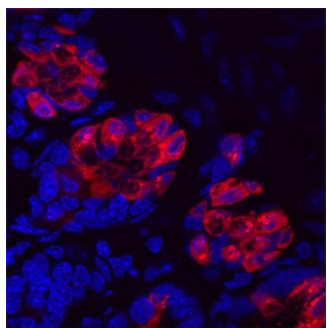
Species Reactivity	Mouse
Specificity	Detects mouse Intelectin-1/Omentin in ELISA. In direct ELISAs, no significant cross-reactivity with recombinant mouse Intelectin-2 and recombinant human Intelectin-1 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 746420
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Intelectin-1/Omentin Ala20-Ser298 Accession # O88310
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 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.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Mouse Intelectin-1/Omentin by Western Blot. Western blot shows lysates of mouse small intestine tissue. PVDF membrane was probed with 2 µg/mL of Rat Anti-Mouse Intelectin-1/Omentin Monoclonal Antibody (Catalog # MAB8074) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Intelectin-1/Omentin at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Intelectin-1/Omentin in Mouse Intestine. Intelectin-1/Omentin was detected in perfusion fixed frozen sections of mouse intestine using frozen sections of mouse intestine using Rat Anti-Mouse Intelectin-1/Omentin Monoclonal Antibody (Catalog # MAB8074) at 25 µg/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 Paneth cells in intestinal glands. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 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

Intelectin (endothelial lectin; also ITLN-1 and omentin) is a 34 kDa Ca-dependent galactofuranose-binding lectin that is not a C-type lectin. It is expressed in intestinal and airway epithelium and appears to participate in insulin signaling and microbe recognition. Intelectin-1 is upregulated in asthma and contributes to allergic airway inflammation. The mouse Intelectin-1 preproprecursor is 313 amino acids (aa) in length. It contains a 19 aa signal sequence, a 279 aa mature sequence (aa 20-298), and a 15 aa C-terminal proregion that is cleaved to generate a GPI-linkage. Soluble Intelectin-1 can be released from omental adipose tissue and malignant pleural mesothelioma. One fibrinogen-related domain exists in the mature molecule (aa 32-251). Human Intelectin-1 exists as a disulfide-linked glycosylated homotrimer; mouse is unglycosylated and a monomer. Mature mouse Intelectin-1 is 82% aa identical to human Intelectin-1.