Mouse Intelectin-1/Omentin Antibody

Monoclonal Rat IgG_{2A} Clone # 746420

Catalog Number: MAB8074

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	*E. coli*-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 either lyophilized or as a 0.2 μm filtered solution in PBS.

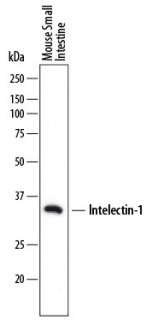
APPLICATIONS

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.*

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

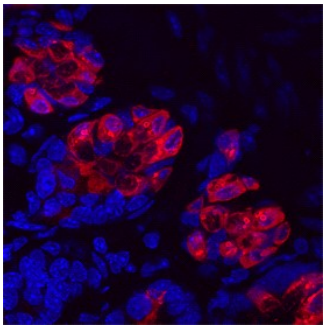
DATA

Western Blot



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.

Immunohistochemistry



Intelectin-1/Omentin in Mouse Intestine. Intelectin-1/Omentin was detected in perfusion fixed 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.

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.** ● 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 segment (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.

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