

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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