Human Intelectin-2 Antibody

Monoclonal Mouse IgG_1 Clone # 874029

Catalog Number: MAB8004

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Intelectin-2 in ELISA. In Direct ELISA, no cross-reactivity with recombinant human (rh) Intelectin-1, recombinant mouse (rm) Intelectin-1, or rmIntelectin-2 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 874029
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Intelectin-2 Met1-Tyr324 Accession # Q8WWU7
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.

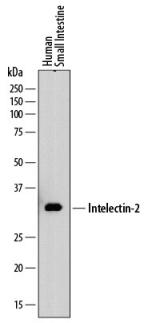
APPLICATIONS

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

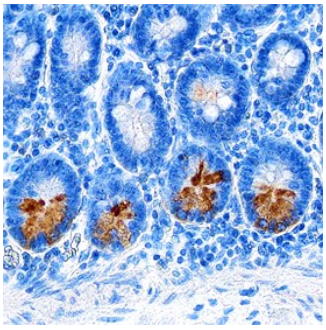
DATA

Western Blot



Detection of Human Intelectin-2 by Western Blot. Western blot shows lysates of human small intestine tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Intelectin-2 Monoclonal Antibody (Catalog # MAB8004) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Intelectin-2 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Intelectin-2 in Human Colon. Intelectin-2 was detected in formalin fixed paraffin-embedded sections of human small intestine using Mouse Anti-Human Intelectin-2 Monoclonal Antibody (Catalog # MAB8004) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to Paneth cells in intestinal glands. View our protocol for Chromogenic IHC Staining of Paraffin-embedded 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-2 (ITLN-2; also endothelial lectin 2 and HL-2) is a 37-41 kDa, likely Ca-dependent carbohydrate-binding lectin that is a member of the X-lectin family of molecules. It is secreted by intestinal Paneth cells, and appears to participate in fungal microbe recognition. The human ITLN-2 precursor is 325 amino acids (aa) in length (SwissProt #:Q8WWU7). It contains a 26 aa signal sequence and a 299 aa mature region. Although mouse ITLN-2 is reportedly GPI-linked, and mouse and human ITLN-2 show considerable C-terminal aa identity, it is not known if human ITNL-2 is also GPI-linked. There is one fibrinogen-related domain in the mature molecule (aa 44-267). One potential splice variant is reported that shows a premature truncation after Gly264. Over aa 29-324, human ITLN-2 shares 79% aa sequence identity with mouse ITLN-2/ITLN-1b, and 85% aa sequence identity with human ITLN-1.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449