

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Galectin-2 in direct ELISAs and Western blots. In Western blots, approximately 5% cross-reactivity with recombinant human (rh) Galectin-2 is observed and no cross-reactivity with rhGalectin-4, -8, -10, recombinant mouse Galectin-1, -3, -7, or -9 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 747307
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Galectin-2 Ser2-Glu130 Accession # Q9CQW5
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.

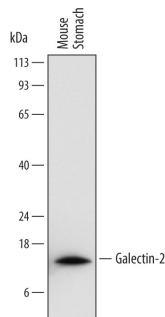
APPLICATIONS

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	0.2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

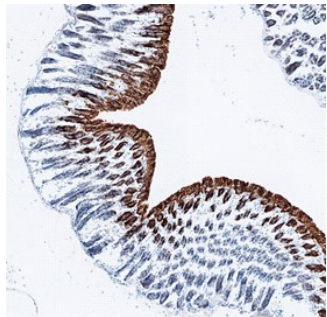
DATA

Western Blot



Detection of Mouse Galectin-2 by Western Blot. Western blot shows lysates of mouse stomach tissue. PVDF membrane was probed with 0.2 µg/mL of Rat Anti-Mouse Galectin-2 Monoclonal Antibody (Catalog # MAB6667) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Galectin-2 at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunohistochemistry



Galectin-2 in Mouse Stomach. Galectin-2 was detected in perfusion fixed frozen sections of mouse stomach using Rat Anti-Mouse Galectin-2 Monoclonal Antibody (Catalog # MAB6667) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counter-stained with hematoxylin (blue). Specific staining was localized to gastric pits. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

Galectin-2 (Gal-2; also LEG2, HL14 and L-14-II) is a 14-15 kDa member of the S-type (1-CRD type) lectin family of proteins. It is a potentially secreted, noncovalent homodimer that is expressed by stomach mucosal columnar epithelium, small intestine Goblet cells and keratinocytes. Galectin-2 is reported to bind to CD29, and initiate CD8⁺ T cell apoptosis. Structurally, it serves to bind nonsialylated poly-NAcetylactosamine motifs. Mouse Galectin-2 is 130 amino acids (aa) in length. There is one galectin domain (aa 4-130) that contains one dimerization interface (aa 123-128). Full-length mouse Galectin-2 shares 86% and 66% aa identity with rat and human Galectin-2, respectively.