Mouse Galectin-2 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6667

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Galectin-2 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human Galectin-2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse Galectin-2 Ser2-Glu130 (Gly36Val) 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 as a 0.2 μm filtered solution in PBS.

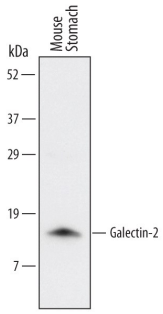
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

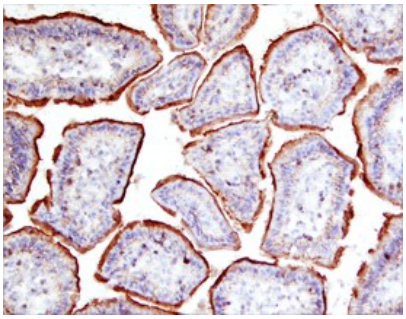
DATA

Western Blot



Detection of Mouse Galectin-2 by Western Blot. Western blot shows lysates of mouse stomach tissue. PVDF Membrane was probed with 0.5 µg/mL of Mouse Galectin-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6667) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). 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 Intestine. Galectin-2 was detected in perfusion fixed frozen sections of mouse intestine using Mouse Galectin-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6667) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hemotoxylin (blue). View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 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.** ● 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-NAcetyllactosamine 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.

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