

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, o
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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Galectin-2 (Gal-2; also LEG2, HL 14 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.

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