

Human Galectin-2 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1153

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Galectin-2 in Western blots. In this format, less than 5% cross-reactivity with recombinant human (rh) Galectin-3 is observed and less than 1% cross-reactivity with rhGalectin-1, rhGalectin-4, rhGalectin-7 and rhGalectin-8 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human Galectin-2 (R&D Systems, Catalog # 1153-GA) Met1-Glu132 Accession # P05162
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
APPLICATIONS Please Note: Optimal dilution	ons should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. Recommended Sample
Western Blot	Concentration 0.1 µg/mL Recombinant Human Galectin-2 (Catalog # 1153-GA)
PREPARATION AND S	TORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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

The galectins constitute a large family of carbohydrate-binding proteins with specificity for N-acetyl-lactosamine-containing glycoproteins. At least 14 mammalian galectins, which share structural similarities in their carbohydrate recognition domains (CRD), have been identified to date. The galectins have been classified into the prototype galectins (-1, -2, -5, -7, -10, -11, -13, -14), which contain one CRD and exist either as a monomer or a noncovalent homodimer; the chimera galectins (galectin-3) containing one CRD linked to a nonlectin domain; and the tandem-repeat galectins (-4, -6, -8, -9, -12) consisting of two CRDs joined by a linker peptide. Galectins lack a classical signal peptide and can be localized to the cytosolic compartments where they have intracellular functions. However, via one or more as yet unidentified non-classical secretory pathways, galectins can also be secreted to function extracellularly. Individual members of the galectin family have different tissue distribution profiles and exhibit subtle differences in their carbohydrate-binding specificities. Each family member may preferentially bind to a unique subset of cell-surface glycoproteins (1-4).

Galectin-2 is a monomeric or homodimeric prototype galectin that is expressed in hepatoma, stomach epithelial cells and in colorectal and neural tumors. The functions of Galectin-2 has not been reported. Human and mouse Galectin-2 share approximately 65% amino acid sequence similarity (1-4).

References:

- 1. Rabinovich, A. et al. (2002) Trends in Immunol. 23:313.
- 2. Rabinovich, A. et al. (2002) J. Leukocyte Biology 71:741.
- 3. Hughes, R.C. (2001) Biochimie 83:667.
- 4. R&D Systems Cytokine Bulletin, Summer, 2002.

