

galectin-6 (A-19): sc-31800

BACKGROUND

Galectins are a family of soluble β -galactoside-binding animal lectins that modulate cell-to-cell adhesion and cell-to-extracellular matrix (ECM) interactions and play a role in tumor progression, pre-mRNA splicing and apoptosis. Mouse gastrointestinal tract specifically expresses two closely related galectins, galectin-4 and -6, each with two carbohydrate recognition domains in the same peptide. Galectin-6 lacks a 24 amino acid stretch in the link region between the two carbohydrate recognition domains that are present in galectin-4. Expression of both galectin-4 and galectin-6 is confined to the epithelial cells of the embryonic and adult gastrointestinal tract. Galectin-6 is expressed at about equal levels throughout the gastrointestinal tract.

REFERENCES

1. Couraud, P.O., et al. 1989. Molecular cloning, characterization, and expression of a human 14 kDa lectin. *J. Biol. Chem.* 264: 1310-1316.
2. Chiu, M.L., et al. 1994. An adherens junction protein is a member of the family of lactose-binding lectins. *J. Biol. Chem.* 269: 31770-31776.
3. Rechreche, H., et al. 1997. Cloning and expression of the mRNA of human galectin-4, an S-type lectin downregulated in colorectal cancer. *Eur. J. Biochem.* 248: 225-230.
4. Gitt M.A., et al. 1998. Galectin-4 and galectin-6 are two closely related lectins expressed in mouse gastrointestinal tract. *J. Biol. Chem.* 273: 2954-2960.
5. Gitt M.A., et al. 1998. Sequence, structure, and chromosomal mapping of the mouse *Lgals6* gene, encoding galectin-6. *J. Biol. Chem.* 273: 2961-2970.
6. Kondoh, N., et al. 1999. Identification and characterization of genes associated with human hepatocellular carcinogenesis. *Cancer Res.* 59: 4990-4996.

CHROMOSOMAL LOCATION

Genetic locus: *Lgals6* (mouse) mapping to 7 A3.

SOURCE

galectin-6 (A-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of galectin-6 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-31800 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

galectin-6 (A-19) is recommended for detection of galectin-6 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 μ g per 100–500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with galectin-4 in rat.

Suitable for use as control antibody for galectin-6 siRNA (m): sc-44536.

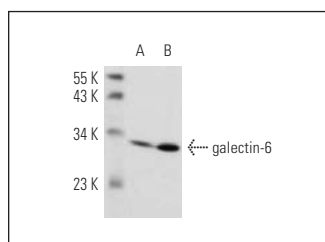
Molecular Weight of galectin-6: 32 kDa.

Positive Controls: C3H/10T1/2 cell lysate: sc-3801 or NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



galectin-6 (A-19): sc-31800. Western blot analysis of galectin-6 expression in C3H/10T1/2 (A) and NIH/3T3 (B) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.