SANTA CRUZ BIOTECHNOLOGY, INC.

galectin-6 (F-16): sc-31798

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 is 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 (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of galectin-6 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-31798 P, (100 µg 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 (F-16) is recommended for detection of galectin-6 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

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

Molecular Weight of galectin-6: 32 kDa.

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.

RESEARCH USE

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