

galectin-4 (H-140): sc-28251

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. galectin-4, also known as Gal-4, L36 or LGALS4 maps to human chromosome 19q13.13 and encodes a 36-37 kDa protein. Expression of galectin-4 correlates with the malignant potential of human hepatocellular carcinoma (HCC) and is differentially regulated depending on cell-cell contact, serum growth factors, cell growth and cell differentiation status. galectin-4 expression is detected in epithelial cells of the colon, rectum, intestine and in HT29 and LS174T cell lines. galectin-4 is underexpressed in colorectal cancer and is preferentially upregulated in cells prone to peritoneal dissemination. galectin-4 and galectin-6 are two closely related lectins expressed in mouse 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. Kondoh, N., et al. 1999. Identification and characterization of genes associated with human hepatocellular carcinogenesis. *Cancer Res.* 59: 4990-4996.

SOURCE

galectin-4 (H-140) is a rabbit polyclonal antibody raised against amino acids 91-230 mapping within an internal region of galectin-4 of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

galectin-4 (H-140) is recommended for detection of galectin-4 of human and, to a lesser extent, mouse and rat 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-6 of mouse origin.

Suitable for use as control antibody for galectin-4 siRNA (h): sc-37102, galectin-4 siRNA (m): sc-37428, galectin-4 shRNA Plasmid (h): sc-37102-SH, galectin-4 shRNA Plasmid (m): sc-37428-SH, galectin-4 shRNA (h) Lentiviral Particles: sc-37102-V and galectin-4 shRNA (m) Lentiviral Particles: sc-37428-V.

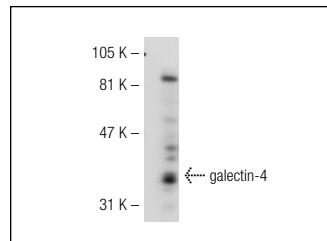
Molecular Weight of galectin-4: 36 kDa.

Positive Controls: BC3H1 cell lysate: sc-2299 or T84 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



galectin-4 (H-140): sc-28251. Western blot analysis of galectin-4 expression in T84 whole cell lysate

SELECT PRODUCT CITATIONS

1. Wei, Q., et al. 2007. Galectin-4 is involved in p27-mediated activation of the myelin basic protein promoter. *J. Neurochem.* 101: 1214-1223.

RESEARCH USE

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

PROTOCOLS

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



Try **galectin-4 (D-11): sc-376398** or **galectin-4 (F-1): sc-376603**, our highly recommended monoclonal alternatives to galectin-4 (H-140).