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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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galectin-3 (h2): 293T Lysate: sc-176286

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. The galectin-3 protein, also known as Mac-2, hMac-2, GALBP, CBP35 or LGALS3, contains a single carbohydrate binding domain, which binds galactose-containing glycoconjugates. Galectin-3 is expressed in colonic and intestinal epithelium, inflammatory macrophages, papillary and follicular carcinomas, neoplastic astrocytes and some B and T lymphocytes. Upregulated expression of galectin-3 is involved in cancer progression and metastasis. Galectin-3 mediates the endocytosis of β 1 integrins in a lactose-dependent manner and is associated with thyroid malignancy and Crohn's disease. It may also be used as a marker for diagnosing cases involving Hurthle cell adenomas and carcinomas.

REFERENCES

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- Shimonishi, T., et al. 2001. Expression of endogenous galectin-1 and galectin-3 in intrahepatic cholangiocarcinoma. *Hum. Pathol.* 32: 302-310.
- Guittaut, M., et al. 2001. Identification of an internal gene to the human galectin-3. *J. Biol. Chem.* 276: 2652-2667.
- Jensen-Jarolim, E., et al. 2001. Anti-galectin-3 IgG autoantibodies in patients with Crohn's disease characterized by means of phage display peptide libraries. *J. Clin. Immunol.* 21: 348-356.
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- Inufusa, H., et al. 2001. Role of galectin-3 in adenocarcinoma liver metastasis. *Int. J. Oncol.* 19: 913-919.
- Yoshii, T., et al. 2001. Galectin-3 phosphorylation is required for its anti-apoptotic function and cell cycle arrest. *J. Biol. Chem.* 277: 6852-6857.

CHROMOSOMAL LOCATION

Genetic locus: LGALS3 (human) mapping to 14q22.3.

PRODUCT

galectin-3 (h2): 293T Lysate represents a lysate of human galectin-3 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

galectin-3 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive galectin-3 antibodies.

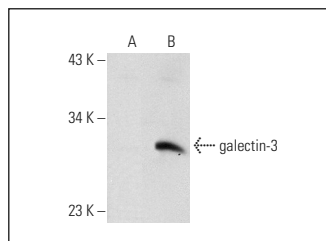
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

galectin-3 (B2C10): sc-32790 is recommended as a positive control antibody for Western Blot analysis of enhanced human galectin-3 expression in galectin-3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

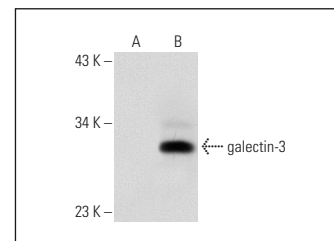
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



galectin-3 (B2C10): sc-32790. Western blot analysis of galectin-3 expression in non-transfected: sc-117752 (A) and human galectin-3 transfected: sc-176286 (B) 293T whole cell lysates.



galectin-3 (M3/38): sc-23938. Western blot analysis of galectin-3 expression in non-transfected: sc-117752 (A) and human galectin-3 transfected: sc-176286 (B) 293T whole cell lysates.

RESEARCH USE

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