

galectin-8 (D-18): sc-10265

BACKGROUND

Several proteins have been identified as specific markers of prostate cancer, and they may be useful as diagnostic indicators. PSA, prostate specific antigen, is the classical indicator for transformed prostate tissue; however, in addition to being upregulated in prostate cancer, PSA is also upregulated in non-malignant conditions, such as benign prostatic hyperplasia prostate. Galectin-8, also known as prostate-specific membrane antigen (PCTA-1), is an additional prostate-specific antigen that is overexpressed only in malignant tumors and therefore is a more specific identifier of malignancies. It is a member of the galectin gene family which mediates both cell-cell and cell-matrix interactions in a manner similar to the selectin subgroup of C-type lectins.

REFERENCES

1. Pretlow, T.G., et al. 1991. Tissue concentrations of prostate-specific antigen in prostatic carcinoma and benign prostatic hyperplasia. *Int. J. Cancer* 49: 645-649.
2. Israeli, R.S., et al. 1993. Molecular cloning of a complementary DNA encoding a prostate-specific membrane antigen. *Cancer Res.* 53: 227-230.

CHROMOSOMAL LOCATION

Genetic locus: LGALS8 (human) mapping to 1q43; Lgals8 (mouse) mapping to 13 A1.

SOURCE

galectin-8 (D-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of galectin-8 of human 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-10265 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

galectin-8 (D-18) is recommended for detection of galectin-8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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-8 siRNA (h): sc-37429, galectin-8 siRNA (m): sc-37430, galectin-8 shRNA Plasmid (h): sc-37429-SH, galectin-8 shRNA Plasmid (m): sc-37430-SH, galectin-8 shRNA (h) Lentiviral Particles: sc-37429-V and galectin-8 shRNA (m) Lentiviral Particles: sc-37430-V.

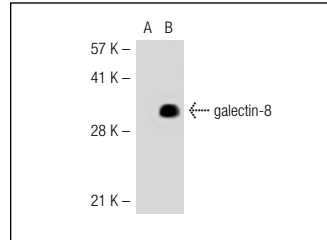
Molecular Weight of galectin-8: 35 kDa.

Positive Controls: galectin-8 (h): 293 Lysate: sc-113277.

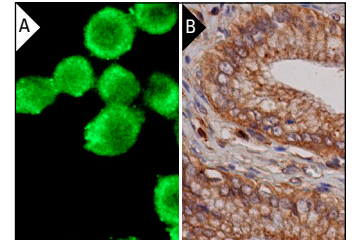
STORAGE

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

DATA



galectin-8 (D-18): sc-10265. Western blot analysis of galectin-8 expression in non-transfected: sc-110760 (A) and human galectin-8 transfected: sc-113277 (B) 293 whole cell lysates.



galectin-8 (D-18): sc-10265. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic and membrane staining of glandular cells (B).

SELECT PRODUCT CITATIONS

1. Savin, S., et al. 2009. Evaluation of galectin-8 expression in thyroid tumors. *Med. Oncol.* 26: 314-318.
2. Mobergslie, A. and Sioud, M. 2012. Galectin-1 and -3 gene silencing in immature and mature dendritic cells enhances T cell activation and interferon-γ production. *J. Leukoc. Biol.* 91: 461-467.
3. Woodward, A.M., et al. 2012. Characterization of the interaction between hydroxypropyl guar galactomannan and galectin-3. *Biochem. Biophys. Res. Commun.* 424: 12-17.

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.


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Try **galectin-8 (C-8): sc-377133**, our highly recommended monoclonal alternative to galectin-8 (D-18).