

galectin-12 (G-20): sc-67579

BACKGROUND

Galectin-12, also known as galectin related inhibitor of proliferation 1 (in mouse), is a 314 amino acid protein encoded by the human gene LGALS12. Galectin-12 is a member of the galectin family consisting of β -galactoside-binding proteins with conserved carbohydrate recognition domains. Galectin-12 binds lactose and may participate in the apoptosis of adipocytes. This protein is preferentially expressed in peripheral blood leukocytes and adipocytes. Galectin-12 is induced by cell cycle block at the G₁ phase and causes G₁ arrest when overexpressed. The galectin-12 gene is expressed in mouse preadipocytes and is upregulated when preadipocytes undergo cell cycle arrest, concomitant with acquisition of the competence to undergo differentiation in response to adipogenic hormone stimulation. Galectin-12 is an adipocyte-expressed protein which is downregulated by various Insulin resistance-inducing hormones. As a result, galectin-12 may play a role in the pathogenesis of Insulin resistance.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LGALS12 (human) mapping to 11q12.3.

SOURCE

galectin-12 (G-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of galectin-12 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.

Blocking peptide available for competition studies, sc-67579 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

galectin-12 (G-20) is recommended for detection of galectin-12 of human 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).

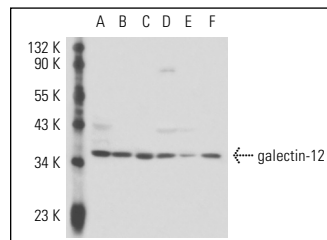
galectin-12 (G-20) is also recommended for detection of galectin-12 in additional species, including canine.

Suitable for use as control antibody for galectin-12 siRNA (h): sc-62362, galectin-12 shRNA Plasmid (h): sc-62362-SH and galectin-12 shRNA (h) Lentiviral Particles: sc-62362-V.

Molecular Weight of galectin-12: 35 kDa.

Positive Controls: Daudi cell lysate: sc-2415, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

DATA



galectin-12 (G-20): sc-67579. Western blot analysis of galectin-12 expression in SK-BR-3 (A), Daudi (B), Raji (C), U-937 (D), Jurkat (E) and HeLa (F) whole cell lysates.

STORAGE

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

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.