

# LECT2 (N-12): sc-47101

## BACKGROUND

Leukocyte cell-derived chemotaxin 2 (LECT2) is a secreted protein with a neutrophil chemotactic activity. LECT2 is highly expressed in liver and shows diffuse immunostaining within the cytoplasm of hepatocytes. The LECT2 protein consists of 133 amino acids and 3 intramolecular disulfide bonds, and homologs of LECT2 have been widely identified in many vertebrates. LECT2 has a multifunctional role that extends from cell growth, differentiation, damage/repair process and carcinogenesis to autoimmune diseases. LECT2 expression is specifically induced in liver by  $\beta$ -catenin signaling. Serum LECT2 levels have been shown to increase in response to liver recovery, suggesting LECT2 may be used as a prognostic indicator.

## REFERENCES

1. Kishimoto, H., et al. 1977. Anomalous origin of a successful corrective surgery. Jpn. J. Thorac. Cardiovasc. Surg. 24: 1519-1527.
2. Yamagoe, S., et al. 1998. Molecular cloning, structural characterization, and chromosomal mapping of the human LECT2 gene. Genomics 48: 324-329.

## CHROMOSOMAL LOCATION

Genetic locus: LECT2 (human) mapping to 5q31.1; Lect2 (mouse) mapping to 13 B1.

## SOURCE

LECT2 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LECT2 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-47101 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

LECT2 (N-12) is recommended for detection of mature LECT2 and LECT2 precursor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

Suitable for use as control antibody for LECT2 siRNA (h): sc-60928, LECT2 siRNA (m): sc-60929, LECT2 shRNA Plasmid (h): sc-60928-SH, LECT2 shRNA Plasmid (m): sc-60929-SH, LECT2 shRNA (h) Lentiviral Particles: sc-60928-V and LECT2 shRNA (m) Lentiviral Particles: sc-60929-V.

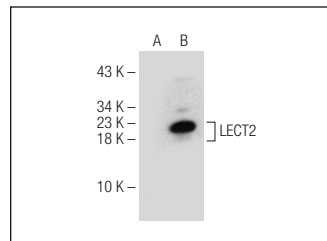
Molecular Weight of LECT2: 16 kDa.

Positive Controls: rat liver extract: sc-2395 or human LECT2 transfected HEK293T whole cell lysate.

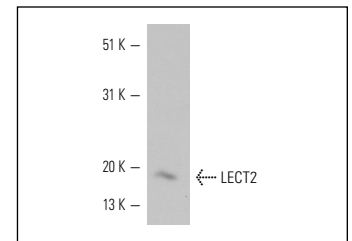
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



LECT2 (N-12): sc-47101. Western blot analysis of LECT2 expression in non-transfected (A) and human LECT2 transfected (B) HEK293T whole cell lysates.



LECT2 (N-12): sc-47101. Western blot analysis of LECT2 expression in rat liver tissue extract.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **LECT2 (B-6): sc-398071** or **LECT2 (A-7): sc-398072**, our highly recommended monoclonal alternatives to LECT2 (N-12).