SREC-II (D-15): sc-86880



The Power to Question

BACKGROUND

SREC-II (scavenger receptor expressed by endothelial cells 2 protein), also known as SCARF2 (scavenger receptor class F, member 2), NSR1 or SREPCR, is an 866 amino acid single-pass type I membrane protein that contains 6 EGF-like domains. Expressed predominately in endothelial cells found in lung, heart, spleen, placenta, ovary and small intestine, SREC-II is thought to function as an adhesion protein that mediates heterophilic and homophilic interactions via extracellular domains. The gene encoding SREC-II maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-AbI, a potent cell proliferation activator found in several types of leukemias.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SCARF2 (human) mapping to 22q11.21; Scarf2 (mouse) mapping to 16 A3.

SOURCE

SREC-II (D-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of SREC-II of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86880 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SREC-II (D-15) is recommended for detection of SREC-II of mouse, rat and 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); non cross-reactive with SREC.

SREC-II (D-15) is also recommended for detection of SREC-II in additional species, including bovine.

Suitable for use as control antibody for SREC-II siRNA (h): sc-76577, SREC-II siRNA (m): sc-153819, SREC-II shRNA Plasmid (h): sc-76577-SH, SREC-II shRNA Plasmid (m): sc-153819-SH, SREC-II shRNA (h) Lentiviral Particles: sc-76577-V and SREC-II shRNA (m) Lentiviral Particles: sc-153819-V.

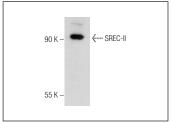
Molecular Weight of SREC-II: 92 kDa.

Positive Controls: Human liver tissue extract.

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



SREC-II (D-15): sc-86880. Western blot analysis of SREC-II expression in human liver tissue extract.

RESEARCH USE

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