

SCARA5 (S-13): sc-98123

BACKGROUND

SCARA5 (scavenger receptor class A member 5), also known as Tesr, is a 495 amino acid cell membrane protein. SCARA5 is expressed at high levels in testis, with highest levels specifically found in specific populations of epithelial cells and Sertoli cells. SCARA5 forms a homotrimer single-pass type II membrane complex present on the surface of the plasma membrane. Cells transfected with SCARA5 were able to bind particular gram-positive and gram-negative bacteria, suggesting a possible role for SCARA5 in immunity to infection. It has also been suggested that SCARA5 may be involved in transferrin delivery pathways. Expressed as four isoforms produced by alternative splicing, SCARA5 contains one collagen-like domain and one SRCR domain.

REFERENCES

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3. Online Mendelian Inheritance in Man, OMIM[™]. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611306. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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CHROMOSOMAL LOCATION

Genetic locus: SCARA5 (human) mapping to 8p21.1; Scara5 (mouse) mapping to 14 D1.

SOURCE

SCARA5 (S-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of SCARA5 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-98123 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

SCARA5 (S-13) is recommended for detection of SCARA5 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with SCARA3 .

SCARA5 (S-13) is also recommended for detection of SCARA5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SCARA5 siRNA (h): sc-77423, SCARA5 siRNA (m): sc-153249, SCARA5 shRNA Plasmid (h): sc-77423-SH, SCARA5 shRNA Plasmid (m): sc-153249-SH, SCARA5 shRNA (h) Lentiviral Particles: sc-77423-V and SCARA5 shRNA (m) Lentiviral Particles: sc-153249-V.

Molecular Weight of SCARA5 isoforms: 54/43/39/29 kDa.

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.

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.