**BACKGROUND**

SPARC (secreted protein acidic and rich in cysteine) is a phosphorylated, acidic, glycine-rich glycoprotein that is secreted by endothelial cells and is present in large amounts in the parietal endoderm of mouse embryos and in human placenta. SPARC-like protein 1 (SPARCL1), also known as high endothelial venule protein (Hevin) or MAST9, is a 664 amino acid member of the SPARC family of proteins. Highly expressed in lymph node, heart, lung, brain, skeletal muscle, ovary, colon and small intestine, SPARCL1 is a secreted protein that contains one EF-hand domain, one follistatin-like domain and one Kazal-like domain. SPARCL1 is implicated to play a role in neuronal remodeling and tumor suppression. The gene encoding SPARCL1 maps to chromosome 4q22.1.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SPARCL1 (human) mapping to 4q22.1; Sparcl1 (mouse) mapping to 5 E5.

**SOURCE**

SPARCL1 (G-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 586-600 within a C-terminal extracellular domain of SPARCL1 of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgM in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-514275 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

SPARCL1 (G-5) is recommended for detection of SPARCL1 of human and rat origin and Sc1 of mouse origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for SPARCL1 siRNA (h): sc-89018, Sc1 siRNA (m): sc-153239, SPARCL1 shRNA Plasmid (h): sc-69018-SH, Sc1 shRNA Plasmid (m): sc-153239-SH, SPARCL1 shRNA (h) Lentiviral Particles: sc-89018-V and Sc1 shRNA (m) Lentiviral Particles: sc-153239-V.

Molecular Weight of SPARCL1: 75 kDa.

Positive Controls: EOC 20 whole cell lysate: sc-364187 or NCI-H460 whole cell lysate: sc-364235.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgM-HRP: sc-2064 (dilution range: 1:500-1:5,000), TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L PLUS-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-mouse IgM-FITC: sc-2082 (dilution range: 1:100-1:400) or goat anti-mouse IgM-R: sc-2983 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

**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.