

Stabilin-1 (S-20): sc-34954

BACKGROUND

Stabilin-1 (also known as MS-1 antigen or FEEL1) is a large, transmembrane receptor protein that is involved in cell adhesion, angiogenesis, lymphocyte homing and receptor scavenging. It may also be involved in defense against bacterial infections by binding to both Gram-positive and Gram-negative bacteria. Stabilin-1 is primarily expressed on sinusoidal endothelial cells of liver, spleen, lymph node and placenta. It contains tandem fasciclin domains, epidermal growth factor-like repeats and a C-type lectin-like hyaluronan-binding Link module, which functions as an endocytic receptor for acetylated low density lipoprotein and advanced glycation end products. Stabilin-1 has also been reported to mediate both homing of leukocytes across lymph node high endothelial venules and adhesion of metastatic tumor cells to peritumoral lymphatic vessels.

REFERENCES

1. Politz, O., et al. 2002. Stabilin-1 and -2 constitute a novel family of fasciclin-like hyaluronan receptor homologues. *Biochem. J.* 362: 155-164.
2. Falkowski, M., et al. 2003. Expression of Stabilin-2, a novel fasciclin-like hyaluronan receptor protein, in murine sinusoidal endothelia, avascular tissues, and at solid/liquid interfaces. *Histochem. Cell Biol.* 120: 361-369.
3. Kzhyshkowska, J., et al. 2004. Stabilin-1 localizes to endosomes and the *trans*-Golgi network in human macrophages and interacts with GGA adaptors. *J. Leukoc. Biol.* 76: 1151-1161.
4. Prevo, R., et al. 2004. Rapid plasma membrane-endosomal trafficking of the lymph node sinus and high endothelial venule scavenger receptor/homing receptor stabilin-1 (FEEL-1/CLEVER-1). *J. Biol. Chem.* 279: 52580-52592.
5. McCourt, P.A., et al. 2004. The liver sinusoidal endothelial cell hyaluronan receptor and its homolog, Stabilin-1—their roles (known and unknown) in endocytosis. *Comp. Hepatol.* 3: S24.

CHROMOSOMAL LOCATION

Genetic locus: STAB1 (human) mapping to 3p21.1; Stab1 (mouse) mapping to 14 B.

SOURCE

Stabilin-1 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Stabilin-1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-34954 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

Stabilin-1 (S-20) is recommended for detection of Stabilin-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Stabilin-1 (S-20) is also recommended for detection of Stabilin-1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Stabilin-1 siRNA (h): sc-45784, Stabilin-1 siRNA (m): sc-45785, Stabilin-1 shRNA Plasmid (h): sc-45784-SH, Stabilin-1 shRNA Plasmid (m): sc-45785-SH, Stabilin-1 shRNA (h) Lentiviral Particles: sc-45784-V and Stabilin-1 shRNA (m) Lentiviral Particles: sc-45785-V.

Molecular Weight of Stabilin-1 isoform 1/2: 275/87 kDa.

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) 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.

SELECT PRODUCT CITATIONS

1. Biedron, R., et al. 2015. Oxidation by neutrophils-derived HOCl increases immunogenicity of proteins by converting them into ligands of several endocytic receptors involved in antigen uptake by dendritic cells and macrophages. *PLoS ONE* 10: e0123293.

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.


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Try **Stabilin-1 (4G9): sc-293254**, our highly recommended monoclonal alternative to Stabilin-1 (S-20).