



# 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 3p21.31; 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).

Suitable for use as control antibody for Stabilin-1 siRNA (h): sc-45784 and Stabilin-1 siRNA (m): sc-45785.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.