

STON1 (T-15): sc-169457

BACKGROUND

STON1 (stonin-1), also known as SALF, SBLF (stoned B-like factor) or STN1, is a 735 amino acid cytoplasmic and membrane protein that is ubiquitously expressed and may be involved in the endocytic machinery. Belonging to the stoned B family, STON1 contains one MHD (μ homology) domain and one SHD (stonin homology) domain. In contrast to other members of the family, STON1 does not contain NPF (Asn-Pro-Phe) sites and therefore does not interact with Eps15, Eps15R and Intersectin. The gene that encodes STON1 maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: STON1/STON1-GTF2A1L (human) mapping to 2p16.3; Ston1 (mouse) mapping to 17 E4.

SOURCE

STON1 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of STON1 of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-169457 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

STON1 (T-15) is recommended for detection of STON1 of human and mouse origin, and STON1-ALF fusion protein of 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); non cross-reactive with STON2.

STON1 (T-15) is also recommended for detection of STON1 and STON1-ALF in additional species, including canine and bovine.

Suitable for use as control antibody for STON1 siRNA (h): sc-94314, STON1 siRNA (m): sc-153904, STON1 shRNA Plasmid (h): sc-94314-SH, STON1 shRNA Plasmid (m): sc-153904-SH, STON1 shRNA (h) Lentiviral Particles: sc-94314-V and STON1 shRNA (m) Lentiviral Particles: sc-153904-V.

Molecular Weight of STON1: 83 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.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.