

STON1-ALF (G-21): sc-130949

BACKGROUND

ALF (TFIIA- α/β like factor), also known as GTF2A1L (general transcription factor IIA 1-like), is a nuclear and cytoplasmic protein that is specifically expressed in haploid spermatids in the testis. ALF is believed to play a role in spermatogenesis, functioning as a transcription factor, and is related to the large α/β subunit of TFIIA, existing as the germ cell-specific paralog. Similar to TFIIA- α/β , ALF associates with the smaller TFIIA subunit, TFIIA- γ , and functions to stabilize the interaction between TBP and DNA by binding directly to TBP and DNA (at the TATA box), thus forming a TBP/ALF/TATA complex which mediates the transcriptional output of a gene. STON1, also known as SALF, SBLF, STN1 or Stonin-1, is a 735 amino acid ubiquitously expressed protein that localizes to both the cytoplasm and the membrane and is thought to be involved in the correct operation of endocytic machinery. The genes encoding both STON1 and ALF map to human chromosome 2 and, when co-transcribed, produce a fusion protein known as STONE1-ALF.

REFERENCES

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4. Martina, J.A., et al. 2001. Stonin-2: an adaptor-like protein that interacts with components of the endocytic machinery. *J. Cell Biol.* 153: 1111-1120.
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7. Xiao, L., et al. 2006. Developmental and cell type-specific regulation of core promoter transcription factors in germ cells of frogs and mice. *Gene Expr. Patterns* 6: 409-419.
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CHROMOSOMAL LOCATION

Genetic locus: GTF2A1L (human) mapping to 2p16.3; Gtf2a1l (mouse) mapping to 17 E4.

SOURCE

STON1-ALF (G-21) is a Protein A purified rabbit polyclonal antibody raised against synthetic STON1-ALF peptide of human origin.

PRODUCT

Each vial contains 100 μ g of IgG in PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

STON1-ALF (G-21) is recommended for detection of STON1-ALF fusion protein of human origin and ALF of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

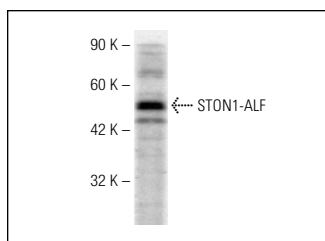
Molecular Weight of ALF: 53 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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).

DATA



STON1-ALF (G-21): sc-130949. Western blot analysis of ALF expression in Jurkat whole cell lysate.

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.