

STAG3L1/2/3 (N-14): sc-240926

BACKGROUND

STAG3L1 (stromal antigen 3-like protein 1), STAG3L2 (stromal antigen 3-like protein 2) and STAG3L3 (stromal antigen 3-like protein 3), are stromal antigen 3-like proteins that all localize to the nucleus, contain one SCD (stromalin conservative) domain and belong to the SCC3 family. While STAG3L1 consists of 205 amino acids, STAG3L2 and STAG3L3 are both 134 amino acid proteins that exist as 2 alternatively spliced isoforms. The genes that encode STAG3L1, STAG3L2 and STAG3L3 map to human chromosome 7q11.23. Chromosome 7 houses over 1,000 genes, comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. The Lys-172 polymorphism in T2R16 is associated with genetic susceptibility to alcoholism.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STAG3L1/STAG3L2/STAG3L3 (human) mapping to 7q11.23.

SOURCE

STAG3L1/2/3 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of STAG3L1 of human origin.

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-240926 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

STAG3L1/2/3 (N-14) is recommended for detection of STAG3L1, STAG3L2 and STAG3L3 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 STAG3L4.

Molecular Weight of STAG3L1: 24 kDa.

Molecular Weight of STAG3L2: 16 kDa.

Molecular Weight of STAG3L3: 16 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.

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.