

ST7L (G-16): sc-138647

BACKGROUND

ST7L (suppressor of tumorigenicity 7 protein-like), also known as ST7R (ST7-related protein) or STLR, is a 575 amino acid multi-pass membrane protein that belongs to the ST7 family and exists as eight alternatively spliced isoforms. The gene that encodes ST7L contains over 97 kb and maps to human chromosome 1p13.2. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ST7L (human) mapping to 1p13.2.

SOURCE

ST7L (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ST7L of human origin.

STORAGE

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

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-138647 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ST7L (G-16) is recommended for detection of ST7L 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 ST7.

ST7L (G-16) is also recommended for detection of ST7L in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ST7L siRNA (h): sc-88046, ST7L shRNA Plasmid (h): sc-88046-SH and ST7L shRNA (h) Lentiviral Particles: sc-88046-V.

Molecular Weight of ST7L isoforms: 65/61/63/45/63/61/63/37 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.

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.