SANTA CRUZ BIOTECHNOLOGY, INC.

Stra13 (G-13): sc-169459

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Stra13 (stimulated by retinoic acid 13), also known as MHF2, FAAP10, FANCM-interacting histone fold protein 2 or CENP-X (centromere protein X), is an 81 amino acid protein that functions as a DNA-binding component of the FA complex for genome maintenance and DNA damage repair. Localizing to chromatin in nucleus and centromere, Stra13 plays a role in muscle integrity by protecting muscle cells from oxidative damage, and Stra13 overexpression has been shown to produce oxidative damage resistance in mice. Stra13 undergoes alternative splicing events to produce three isoforms which are encoded by a gene that maps to human chromosome 17q25.3 and mouse chromosome 11. Stra13 plays a role in assembly of the outer kinetchore and is considered a target for myoepithelial cells and metastatic tumors.

REFERENCES

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3. Ivanova, A., Liao, S.Y., Lerman, M.I., Ivanov, S. and Stanbridge, E.J. 2005. STRA13 expression and subcellular localisation in normal and tumour tissues: implications for use as a diagnostic and differentiation marker. J. Med. Genet. 42: 565-576.
4. Thin, T.H., Li, L., Chung, T.K., Sun, H. and Taneja, R. 2007. Stra13 is induced by genotoxic stress and regulates ionizing-radiation-induced apoptosis. EMBO Rep. 8: 401-407.
5. Vercherat, C., Chung, T.K., Yalcin, S., Gulbagci, N., Gopinadhan, S., Ghaffari, S. and Taneja, R. 2009. Stra13 regulates oxidative stress mediated skeletal muscle degeneration. Hum. Mol. Genet. 18: 4304-4316.
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CHROMOSOMAL LOCATION

Genetic locus: STRA13 (human) mapping to 17q25.3.

SOURCE

Stra13 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Stra13 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-169459 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Stra13 (G-13) is recommended for detection of Stra13 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 other Stra family members.

Suitable for use as control antibody for Stra13 siRNA (h): sc-93558, Stra13 shRNA Plasmid (h): sc-93558-SH and Stra13 shRNA (h) Lentiviral Particles: sc-93558-V.

Molecular Weight of Stra13: 9 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.