

TUSC3 (S-12): sc-98192

BACKGROUND

Made up of nearly 146 million bases, chromosome 8 encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and are typically associated with a poor prognosis. Portions of chromosome 8 have been linked to schizophrenia and bipolar disorder. Trisomy 8, also known as Warkany syndrome 2, most often results in early miscarriage but is occasionally seen in a mosaic form in surviving patients who suffer to a varying degree from a number of symptoms, including retarded mental and motor development, and certain facial and developmental defects. WRN is a DNA helicase encoded by chromosome 8 and shown defective in those with the early aging disorder Werner syndrome. Chromosome 8 is also associated with Pfeiffer syndrome, congenital hypothyroidism and Waardenburg syndrome. The TUSC3 gene product has been provisionally designated TUSC3 pending further characterization.

REFERENCES

- Wildenauer, D.B. and Schwab, S.G. 1999. Chromosomes 8 and 10 workshop. *Am. J. Med. Genet.* 88: 239-243.
- Kashino, G., Kodama, S., Suzuki, K., Oshimura, M. and Watanabe, M. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. *Biochem. Biophys. Res. Commun.* 289: 111-115.
- Selicorni, A., Gueneri, S., Ratti, A. and Pizzuti, A. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.
- McQueen, M.B., Devlin, B., Faraone, S.V., Nimgaonkar, V.L., Sklar, P., Smoller, J.W., Abou Jamra, R., Albus, M., et al. 2005. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. *Am. J. Hum. Genet.* 77: 582-595.
- Agrelo, R., Cheng, W.H., Setien, F., Roper, S., Espada, J., Fraga, M.F., Herranz, M., Paz, M.F., Sanchez-Cespedes, M., Artiga, M.J., Guerrero, D., Castells, A., von Kobbe, C., Bohr, V.A. and Esteller, M. 2006. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. *Proc. Natl. Acad. Sci USA* 103: 8822-8827.

CHROMOSOMAL LOCATION

Genetic locus: TUSC3 (human) mapping to 8p22; Tusc3 (mouse) mapping to 8 A4.

SOURCE

TUSC3 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TUSC3 of human origin.

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-98192 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TUSC3 (S-12) is recommended for detection of TUSC3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 TUSC2.

TUSC3 (S-12) is also recommended for detection of TUSC3 in additional species, including equine, canine, bovine and avian.

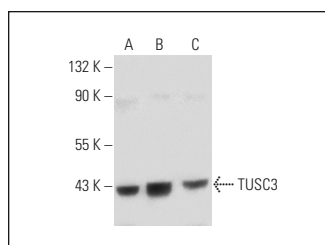
Suitable for use as control antibody for TUSC3 siRNA (h): sc-77535, TUSC3 siRNA (m): sc-154808, TUSC3 shRNA Plasmid (h): sc-77535-SH, TUSC3 shRNA Plasmid (m): sc-154808-SH, TUSC3 shRNA (h) Lentiviral Particles: sc-77535-V and TUSC3 shRNA (m) Lentiviral Particles: sc-154808-V.

Molecular Weight (predicted) of TUSC3: 40 kDa.

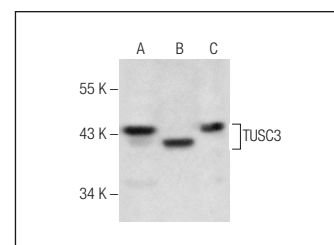
Molecular Weight (observed) of TUSC3: 43 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-BR-3 cell lysate: sc-2218 or T24 cell lysate: sc-2292.

DATA



TUSC3 (S-12): sc-98192. Western blot analysis of TUSC3 expression in T24 (A), SK-BR-3 (B) and HeLa (C) whole cell lysates.



TUSC3 (S-12): sc-98192. Western blot analysis of TUSC3 expression in T24 (A), Hep G2 (B) and MDA-MB-231 (C) whole cell lysates.

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.



Try **TUSC3 (D-9): sc-390566**, our highly recommended monoclonal alternative to TUSC3 (S-12).