REEP4 (h): 293T Lysate: sc-113048



The Power to Question

BACKGROUND

REEP4 (receptor accessory protein 4), which is also known as Receptor expression-enhancing protein 4, PP432, FLJ22246, C8orf20 or FLJ22277, is a 257 amino acid multi-pass membrane protein that interacts with odorant receptor proteins. REEP4 may be involved increasing odorant receptors on cell surfaces, although REEP4 itself is not expressed in olfactory neurons. REEP4 is a member of the DP1 family and has two isoforms which form as a result of alternative splicing events. The gene encoding REEP4 maps to human chromosome 8p21.3. Consisting of nearly 146 million base pairs, chromosome 8 encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that maps to chromosome 8.

REFERENCES

- Wildenauer, D.B. and Schwab, S.G. 1999. Chromosomes 8 and 10 workshop. Am. J. Med. Genet. 88: 239-243.
- 2. Kashino, G., et al. 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., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. Hum. Genet. 110: 64-67.
- Saito, H., et al. 2004. RTP family members induce functional expression of mammalian odorant receptors. Cell 119: 679-691.
- 5. McQueen, M.B., 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., et al. 2006. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer. Proc. Natl. Acad. Sci USA 103: 8822-8827.
- 7. Mossafa, H., et al. 2006. Non-Hodgkin's lymphomas with Burkitt-like cells are associated with c-Myc amplification and poor prognosis. Leuk. Lymphoma 47: 1885-1893.
- 8. Nusbaum, C., et al. 2006. DNA sequence and analysis of human chromosome 8. Nature 439: 331-335.
- 9. Online Mendelian Inheritance in Man, OMIM™. 2006. Johns Hopkins University, Baltimore, MD. MIM Number: 609349. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: REEP4 (human) mapping to 8p21.3.

PRODUCT

REEP4 (h): 293T Lysate represents a lysate of human REEP4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

REEP4 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive REEP4 antibodies. Recommended use: 10-20 µl per lane.

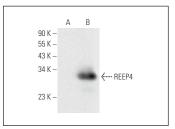
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

REEP4 (H-12): sc-398191 is recommended as a positive control antibody for Western Blot analysis of enhanced human REEP4 expression in REEP4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



REEP4 (H-12): sc-398191. Western blot analysis of REEP4 expression in non-transfected: sc-117752 (A) and human REEP4 transfected: sc-113048 (B) 293T whole rell lysates

RESEARCH USE

For research use only, not for use in diagnostic procedures.