

Reg I β (h): 293 Lysate: sc-114236

BACKGROUND

The regeneration (Reg) family consists of secretory proteins involved in liver, pancreatic, gastric and intestinal cell proliferation or differentiation. Members of the Reg family are divided into four subclasses, designated types I, II, III and IV. They have been implicated in the regulation of cell growth, tumorigenesis and the progression of cancer. Reg I β (regenerating islet-derived I β), also known as REGH, REGL or PSPS2, is a 166 amino acid pancreatic protein that contains one C-type lectin domain and belongs to subclass I of the Reg family. The gene encoding Reg I β is tandemly clustered with other Reg proteins on a region of human chromosome 2, suggesting that several Reg proteins may have arisen from a gene duplication event.

REFERENCES

1. Gharib, B., Fox, M.F., Bartoli, C., Giorgi, D., Sansonetti, A., Swallow, D.M., Dagorn, J.C. and Berge-lefranc, J.L. 1993. Human regeneration protein/lithostathine genes map to chromosome 2p12. *Ann. Hum. Genet.* 57: 9-16.
2. Bartoli, C., Gharib, B., Giorgi, D., Sansonetti, A., Dagorn, J.C. and Berge-lefranc, J.L. 1993. A gene homologous to the Reg gene is expressed in the human pancreas. *FEBS Lett.* 327: 289-293.
3. Moriizumi, S., Watanabe, T., Unno, M., Nakagawara, K., Suzuki, Y., Miyashita, H., Yonekura, H. and Okamoto, H. 1994. Isolation, structural determination and expression of a novel Reg gene, human Reg I β . *Biochim. Biophys. Acta* 1217: 199-202.
4. Miyashita, H., Nakagawara, K., Mori, M., Narushima, Y., Noguchi, N., Moriizumi, S., Takasawa, S., Yonekura, H., Takeuchi, T. and Okamoto, H. 1995. Human Reg family genes are tandemly ordered in a 95-kilobase region of chromosome 2p12. *FEBS Lett.* 377: 429-433.
5. Bartoli, C., Baeza, N., Figarella, C., Pellegrini, I. and Figarella-Branger, D. 1998. Expression of peptide-23/pancreatitis-associated protein and Reg genes in human pituitary and adenomas: comparison with other fetal and adult human tissues. *J. Clin. Endocrinol. Metab.* 83: 4041-4046.
6. Sanchez, D., Figarella, C., Marchand-Pinatel, S., Bruneau, N. and Guy-Crotte, O. 2001. Preferential expression of Reg I β gene in human adult pancreas. *Biochem. Biophys. Res. Commun.* 284: 729-737.
7. Banchuin, N., Boonyasrisawat, W., Pulsawat, P., Vannasaeng, S., Deerochanawong, C., Sriussadaporn, S., Ploybutr, S., Pasurakul, T. and Yenchitsomanus, P.T. 2002. No abnormalities of Reg I α and Reg I β gene associated with diabetes mellitus. *Diabetes Res. Clin. Pract.* 55: 105-111.

CHROMOSOMAL LOCATION

Genetic locus: REG1B (human) mapping to 2p12.

PRODUCT

Reg I β (h): 293 Lysate represents a lysate of human Reg I β transfected 293 cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

Reg I β (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Reg I β antibodies. Recommended use: 10-20 μ l per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

RESEARCH USE

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

PROTOCOLS

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