



LSR (m): 293T Lysate: sc-127108

BACKGROUND

LSR (lipolysis stimulated lipoprotein receptor), also known as ILDR3 or LISCH7, is a 649 amino acid single-pass membrane protein that contains one immunoglobulin-like domain and localizes to the cell membrane. Existing as a homotrimer or a homotetramer, LSR is thought to play a role in the clearing of triglyceride-rich lipoproteins from blood, specifically via binding to low density lipoproteins (LDLs) and very low density lipoproteins (VLDLs) and facilitating their uptake into cells. Overexpression of LSR may be associated with increased colon tumor growth, suggesting an involvement for LSR in tumor formation and metastasis. Multiple isoforms of LSR exist due to alternative splicing events. The gene encoding LSR maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

1. Yen, F.T., et al. 1999. Molecular cloning of a lipolysis-stimulated remnant receptor expressed in the liver. *J. Biol. Chem.* 274: 13390-13398.
2. Hauge, H., et al. 2004. Characterization of a novel immunoglobulin-like domain containing receptor. *Biochem. Biophys. Res. Commun.* 323: 970-978.
3. Kim, J.E., et al. 2005. Global phosphoproteome of HT-29 human colon adenocarcinoma cells. *J. Proteome Res.* 4: 1339-1346.
4. García, J.M., et al. 2007. Prognostic value of LISCH7 mRNA in plasma and tumor of colon cancer patients. *Clin. Cancer Res.* 13: 6351-6358.
5. Herbsleb, M., et al. 2008. Increased cell motility and invasion upon knock-down of lipolysis stimulated lipoprotein receptor (LSR) in SW780 bladder cancer cells. *BMC Med. Genomics* 1: 31.
6. Yen, F.T., et al. 2008. Lipolysis stimulated lipoprotein receptor: a novel molecular link between hyperlipidemia, weight gain, and atherosclerosis in mice. *J. Biol. Chem.* 283: 25650-25659.
7. Voshol, P.J., et al. 2009. Effect of plasma triglyceride metabolism on lipid storage in adipose tissue: studies using genetically engineered mouse models. *Biochim. Biophys. Acta* 1791: 479-485.
8. Narvekar, P., et al. 2009. Liver-specific loss of lipolysis-stimulated lipoprotein receptor triggers systemic hyperlipidemia in mice. *Diabetes* 58: 1040-1049.

CHROMOSOMAL LOCATION

Genetic locus: Lsr (mouse) mapping to 7 B1.

PRODUCT

LSR (m): 293T Lysate represents a lysate of mouse LSR transfected 293T cells and is provided as 100 µg protein in 200 µl 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

LSR (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive LSR 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.

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.