



Gros1 (h): 293T Lysate: sc-111652

BACKGROUND

At the epithelial/mesenchymal interface of most tissues lies the basement membrane. These thin sheets of highly specialized, extracellular matrices vary in composition in a tissue-specific manner and during development and repair. Growth suppressor Gros1, also designated leprecan, is a leucine proline-enriched basement membrane-associated proteoglycan. The gene encodes a transcript that is alternatively spliced to form two proteins, Gros1S and Gros1L. Gros1S is predominantly found in placenta, ovary and testis. The rat homolog of Gros1/leprecan is secreted by parietal yolk sac tumor (L-2) cells and is thought to be involved in the generation of substrates for protein glycosylation.

REFERENCES

1. Wassenhove-McCarthy, D.J. and McCarthy, K.J. 1999. Molecular characterization of a novel basement membrane-associated proteoglycan, leprecan. *J. Biol. Chem.* 274: 25004-25017.
2. Erickson, A.C. and Couchman, J.R. 2000. Still more complexity in mammalian basement membranes. *J. Histochem. Cytochem.* 48: 1291-1306.
3. Kaul, S.C., Sugihara, T., Yoshida, A., Nomura, H. and Wadhwa, R. 2000. Gros1, a potential growth suppressor on Chromosome 1: its identity to basement membrane-associated proteoglycan, leprecan. *Oncogene* 19: 3576-3583.
4. Hotta, K., Takahashi, H., Asakura, T., Saitoh, B., Takatori, N., Satou, Y. and Satoh, N. 2000. Characterization of brachyury-downstream notochord genes in the *Ciona intestinalis* embryo. *Dev. Biol.* 224: 69-80.
5. Aravind, L. and Koonin, E.V. 2001. The DNA-repair protein ALKB, EGL-9, and leprecan define new families of 2-oxoglutarate- and iron-dependent dioxygenases. *Genome Biol.* 2: RESEARCH0007.

CHROMOSOMAL LOCATION

Genetic locus: LEPRE1 (human) mapping to 1p34.2.

PRODUCT

Gros1 (h): 293T Lysate represents a lysate of human Gros1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Gros1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Gros1 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.

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.

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.