



LAD1 (m): 293T Lysate: sc-121274

BACKGROUND

LAD1 (linear IgA disease antigen), also known as Ladinin-1 or LADA, is a 517 amino acid secreted protein. Localized to the basement membrane zone of the extracellular space, LAD1 is an anchoring filament protein that is thought to contribute to the stability of the interaction of the epithelial layers with the mesenchyme. LAD1 is an autoantigen associated with linear IgA disease, in which circulating IgA autoantibodies recognize basement membrane zone proteins. LAD1 is expressed at highest levels in lung and kidney, with lower levels in spleen, liver and brain.

REFERENCES

1. Marinkovich, M.P., Taylor, T.B., Keene, D.R., Burgeson, R.E. and Zone, J.J. 1996. LAD1, the linear IgA bullous dermatosis autoantigen, is a novel 120 kDa anchoring filament protein synthesized by epidermal cells. *J. Invest. Dermatol.* 106: 734-738.
2. Ishiko, A., Shimizu, H., Masunaga, T., Hashimoto, T., Dmochowski, M., Wojnarowska, F., Bhogal, B.S., Black, M.M. and Nishikawa, T. 1996. 97 kDa linear IgA bullous dermatosis (LAD) antigen localizes to the lamina lucida of the epidermal basement membrane. *J. Invest. Dermatol.* 106: 739-743.
3. Uitto, J. and Pulkkinen, L. 1996. Molecular complexity of the cutaneous basement membrane zone. *Mol. Biol. Rep.* 23: 35-46.
4. Motoki, K., Megahed, M., LaForgia, S. and Uitto, J. 1997. Cloning and chromosomal mapping of mouse ladinin, a novel basement membrane zone component. *Genomics* 39: 323-330.
5. Ishiko, A., Shimizu, H., Masunaga, T., Yancey, K.B., Giudice, G.J., Zone, J.J. and Nishikawa, T. 1998. 97 kDa linear IgA bullous dermatosis antigen localizes in the lamina lucida between the NC16A and carboxyl terminal domains of the 180 kDa bullous pemphigoid antigen. *J. Invest. Dermatol.* 111: 93-96.
6. Shimizu, H., Takizawa, Y., Pulkkinen, L., Zone, J.J., Matsumoto, K., Saida, T., Uitto, J. and Nishikawa, T. 1998. The 97 kDa linear IgA bullous dermatosis antigen is not expressed in a patient with generalized atrophic benign epidermolysis bullosa with a novel homozygous G258X mutation in COL17A1. *J. Invest. Dermatol.* 111: 887-892.
7. Online Mendelian Inheritance in Man, OMIM™. 1998. Johns Hopkins University, Baltimore, MD. MIM Number: 602314. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
8. Kim, J.E., Tannenbaum, S.R. and White, F.M. 2005. Global phosphoproteome of HT-29 human colon adenocarcinoma cells. *J. Proteome Res.* 4: 1339-1346.
9. Benzinger, A., Muster, N., Koch, H.B., Yates, J.R. and Hermeking, H. 2005. Targeted proteomic analysis of 14-3-3 α , a p53 effector commonly silenced in cancer. *Mol. Cell. Proteomics* 4: 785-795.

CHROMOSOMAL LOCATION

Genetic locus: LAD1 (mouse) mapping to 1 E4.

PRODUCT

LAD1 (m): 293T Lysate represents a lysate of mouse LAD1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

LAD1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive LAD1 antibodies. Recommended use: 10-20 μ l 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.