SANTA CRUZ BIOTECHNOLOGY, INC.

CHAD (m): 293T Lysate: sc-125129

BACKGROUND

CHAD, also known as chondroadherin, cartilage leucine-rich protein or SLRR4A, is a 359 amino acid cartilage matrix protein that plays a significant role in the regulation of chondrocyte growth and proliferation. CHAD is implicated in the adhesion of fibroblasts, osteoblasts and chondrocytes, which is mediated by interactions with Integrin $\alpha 2/\beta 1$. Existing primarily in monomeric form, CHAD is a secreted protein that localizes to the extracellular matrix and belongs to the small leucine-rich proteoglycan (SLRP) family and class IV subfamily. CHAD contains 11 LRR (leucine-rich) repeats and is present in chondrocytes of all ages. The gene encoding CHAD maps to human chromosome 17q21.33 and mouse chromosome 11 D.

REFERENCES

1. Larsson, T., Sommarin, Y., Paulsson, M., Antonsson, P., Hedbom, E., Wendel, M. and Heinegard, D. 1991. Cartilage matrix proteins. A basic 36-kDa protein with a restricted distribution to cartilage and bone. J. Biol. Chem. 266: 20428-20433.
2. Grover, J., Chen, X.N., Korenberg, J.R. and Roughley, P.J. 1997. The structure and chromosome location of the human chondroadherin gene (CHAD). Genomics 45: 379-385.
3. Camper, L., Heinegârd, D. and Lundgren-Akerlund, E. 1997. Integrin $\alpha 2\beta 1$ is a receptor for the cartilage matrix protein chondroadherin. J. Cell Biol. 138: 1159-1167.
4. Landgren, C., Beier, D.R., Fässler, R., Heinegαrd, D. and Sommarin, Y. 1998. The mouse chondroadherin gene: characterization and chromosomal localization. Genomics 47: 84-91.
5. Mansson, B., Wenglén, C., Mörgelin, M., Saxne, T. and Heinegard, D. 2001. Association of chondroadherin with collagen type II. J. Biol. Chem. 276: 32883-32888.
6. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 602178. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

CHROMOSOMAL LOCATION

Genetic locus: Chad (mouse) mapping to 11 D.

PRODUCT

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

APPLICATIONS

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