



EML1 (h): 293T Lysate: sc-115201

BACKGROUND

Echinoderm microtubule-associated proteins function to modify the assembly dynamics of microtubules by making microtubules slightly longer yet more dynamic. They are classified as ubiquitous due to their expression in most tissues, however, their expression does not occur in the thymus nor the peripheral blood lymphocytes. In the human form of the protein, there is a WD40 domain, also contained in a number of eukaryotic proteins, that carries out functions including signal transduction using adaptor/regulatory modules, pre-mRNA processing and cytoskeleton assembly. EML1 (echinoderm microtubule-associated protein-like 1 or EMAP-1) may be a candidate gene for Usher syndrome type 1A. Usher syndromes (USHs) are a group of genetic disorders consisting of congenital deafness, retinitis pigmentosa, and vestibular dysfunction of variable onset and severity depending on the genetic type.

REFERENCES

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4. Suprenant, K.A., Tuxhorn, J.A., Daggett, M.A., Ahrens, D.P., Hostetler, A., Palange, J.M., VanWinkle, C.E. and Livingston, B.T. 2000. Conservation of the WD-repeat, microtubule-binding protein, EMAP, in sea urchins, humans, and the nematode *C. elegans*. *Dev. Genes Evol.* 210: 2-10.
5. Eichenmüller, B., Ahrens, D.P., Li, Q. and Suprenant, K.A. 2002. Saturable binding of the echinoderm microtubule-associated protein (EMAP) on microtubules, but not filamentous Actin or Vimentin filaments. *Cell Motil. Cytoskeleton* 50: 161-172.
6. De Keersmaecker, K., Graux, C., Otero, M.D., Mentens, N., Somers, R., Maertens, J., Wlodarska, I., Vandenberghe, P., Hagemeijer, A., Marynen, P. and Cools, J. 2005. Fusion of EML1 to ABL1 in T-cell acute lymphoblastic leukemia with cryptic t(9;14)(q34;q32). *Blood* 105: 4849-4852.
7. <http://harvester.embl.de/harvester/O004/O00423.htm>

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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: EML1 (human) mapping to 14q32.2.

PRODUCT

EML1 (h): 293T Lysate represents a lysate of human EML1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

EML1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive EML1 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.

RESEARCH USE

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