

Eps15L1 (h): 293T Lysate: sc-112842

BACKGROUND

Elucidation of the mechanism by which receptor tyrosine kinases (RTKs) modulate cellular physiology in response to stimuli is critical to the understanding of growth regulation, as miscues in RTK signaling can result in cellular transformation events that may ultimately lead to cancer. Eps15 (EGF-receptor pathway substrate 15) is an EGF receptor substrate that becomes tyrosine phosphorylated subsequent to EGF stimulation. Overexpression of Eps15 in NIH/3T3 cells causes cellular transformation, implying involvement of Eps15 in the regulation of cell proliferation. Eps15R (Eps15-related), also known as Eps15L1 (epidermal growth factor receptor substrate 15-like 1), is an 864 amino acid protein that contains one EF-hand domain and 3 EH domains. Localized to a variety of places within the cell, including the nucleus, cytoplasm and membrane-coated pits, Eps15R is thought to function as a component of clathrin-coated pits. Like Eps15, Eps15R may play an important role in receptor-mediated endocytosis.

REFERENCES

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3. Rosenthal, J.A., et al. 1999. The epsins define a family of proteins that interact with components of the clathrin coat and contain a new protein module. *J. Biol. Chem.* 274: 33959-33965.
4. Doria, M., et al. 1999. The Eps15 homology (EH) domain-based interaction between Eps15 and hrb connects the molecular machinery of endocytosis to that of nucleocytoplasmic transport. *J. Cell Biol.* 147: 1379-1384.
5. Offenhäuser, N., et al. 2000. Differential patterns of expression of Eps15 and Eps15R during mouse embryogenesis. *Mech. Dev.* 95: 309-312.
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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: EPS15L1 (human) mapping to 19p13.11.

PRODUCT

Eps15L1 (h): 293T Lysate represents a lysate of human Eps15L1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Eps15L1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Eps15L1 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.