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ERp29 (m): 293T Lysate: sc-120110

BACKGROUND

Endoplasmic reticulum proteins (ERPs) are widely expressed proteins that localize to the ER. ERp19, ERp29, ERp46, ERp57 and ERp72 may act as proteases, protein disulfide isomerases, thiol-disulfide oxidases, phospholipases or a combination of these. ERp29, also designated chromosome 12 open reading frame 8 (C12ORF8), is a reticuloplasm that dimerizes and may function in secretory protein processing within the ER. ERp29 also plays a possible role in the folding of proteins in the ER. Though this protein shows sequence similarity to the protein disulfide isomerase family, it does not function as a disulfide isomerase, as it lacks the thioredoxin motif characteristic of this family. Like other reticuloplasm, ERp29 contains an N-terminal hydrophobic signal sequence and a C-terminal endoplasmic reticulum retention motif (KEEL).

REFERENCES

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5. Willis, D., Li, K.W., Zheng, J.Q., Chang, J.H., Smit, A.B., Kelly, T., Merianda, T.T., Sylvester, J., van Minnen, J. and Twiss, J.L. 2005. Differential transport and local translation of cytoskeletal, injury-response, and neurodegeneration protein mRNAs in axons. *J. Neurosci.* 25: 778-791.

CHROMOSOMAL LOCATION

Genetic locus: Erp29 (mouse) mapping to 5 F.

PRODUCT

ERp29 (m): 293T Lysate represents a lysate of mouse ERp29 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

ERp29 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ERp29 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.