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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ERp46 (m): 293T Lysate: sc-120111

BACKGROUND

Endoplasmic reticulum proteins (ERPs) are widely expressed proteins and 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. ERp19, also designated thioredoxin domain-containing protein 12 (TXNDC12) and ERp46, also designated thioredoxin domain containing 5 (TXNDC5), belong to the thioredoxin superfamily and contain a thioredoxin fold with a consensus active-site sequence (CxxC). Both ERp19 and ERp46 are widely expressed ER luminal proteins that are most abundant in the liver and are enriched in purified liver ER vesicles. ERp46 reduces Insulin disulfide bonds and also complements protein disulfide-isomerase deficiency in yeast. ERp46 may protect hypoxic cells from apoptosis, as its expression is induced by hypoxia.

REFERENCES

1. Alanen, H.I., Williamson, R.A., Howard, M.J., Lappi, A.K., Jääntti, H.P., Rautio, S.M., Kellokumpu, S. and Ruddock, L.W. 2003. Functional characterization of ERp18, a new endoplasmic reticulum-located thioredoxin superfamily member. *J. Biol. Chem.* 278: 28912-28920.
2. Sullivan, D.C., Huminiecki, L., Moore, J.W., Boyle, J.J., Poulosom, R., Creamer, D., Barker, J. and Bicknell, R. 2003. EndoPDI, a novel protein-disulfide isomerase-like protein that is preferentially expressed in endothelial cells acts as a stress survival factor. *J. Biol. Chem.* 278: 47079-47088.
3. Liu, F., Rong, Y.P., Zeng, L.C., Zhang, X. and Han, Z.G. 2003. Isolation and characterization of a novel human thioredoxin-like gene hTLP19 encoding a secretory protein. *Gene* 315: 71-78.
4. Knoblach, B., Keller, B.O., Groenendyk, J., Aldred, S., Zheng, J., Lemire, B.D., Li, L. and Michalak, M. 2003. ERp19 and ERp46, new members of the thioredoxin family of endoplasmic reticulum proteins. *Mol. Cell. Proteomics* 2: 1104-1119.
5. Morand, J.P., Macri, J. and Adeli, K. 2005. Proteomic profiling of hepatic endoplasmic reticulum-associated proteins in an animal model of Insulin resistance and metabolic dyslipidemia. *J. Biol. Chem.* 280: 17626-17633.

CHROMOSOMAL LOCATION

Genetic locus: Txn5 (mouse) mapping to 13 A3.3.

PRODUCT

ERp46 (m): 293T Lysate represents a lysate of mouse ERp46 transfected 293T cells and is provided as 100 µg protein in 200 µl 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

ERp46 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ERp46 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.

RESEARCH USE

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