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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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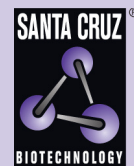
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PDI (m2): 293T Lysate: sc-125797

BACKGROUND

Oxidoreductase-protein disulfide isomerase (PDI) is a homodimer consisting of subunits that catalyzes thiol-disulfide exchange, mediates folding of newly synthesized proteins and functions as a molecular chaperone. PDI localizes to the lumen of the endoplasmic reticulum (ER), where in conjunction with folding-helper proteins, such as immunoglobulin heavy chain binding protein (BiP), it mediates tertiary and quaternary protein processing. Cell surface PDI induces sulfhydryl-mediated conformational changes in integrin-mediated adhesion receptor-ligand interactions, thereby regulating integrin responses and cell adhesion. Additionally, PDI functions as a subunit of two more complex enzyme systems: the prolyl-4-hydroxylase and the triacylglycerol transfer proteins.

REFERENCES

1. Burgess, J.K., Hotchkiss, K.A., Suter, C., Dudman, N.P., Szollosi, J., Chesterman, C.N., Chong, B.H. and Hogg, P.J. 2000. Physical proximity and functional association of glycoprotein 1b α and protein-disulfide isomerase on the platelet plasma membrane. *J. Biol. Chem.* 275: 9758-9766.
2. Klappa, P., Koivunen, P., Pirneskoski, A., Karvonen, P., Ruddock, L.W., Kivirikko, K.I. and Freedman, R.B. 2000. Mutations that destabilize the a' domain of human protein-disulfide isomerase indirectly affect peptide binding. *J. Biol. Chem.* 275: 13213-13218.
3. Mayer, M., Kies, U., Kammermeier, R. and Buchner, J. 2000. BiP and PDI cooperate in the oxidative folding of antibodies *in vitro*. *J. Biol. Chem.* 275: 29421-29425.
4. Lahav, J., Gofer-Dadosh, N., Luboshitz, J., Hess, O. and Shaklai, M. 2000. Protein disulfide isomerase mediates integrin-dependent adhesion. *FEBS Lett.* 475: 89-92.
5. LocusLink Report (LocusID: 11008). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: P4hb (mouse) mapping to 11 E2.

PRODUCT

PDI (m2): 293T Lysate represents a lysate of mouse PDI transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PDI (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PDI 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.

STORAGE

Store at -20 $^{\circ}$ 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.