

PDIR (m): 293T Lysate: sc-122469

BACKGROUND

Oxidoreductase-protein disulfide isomerase (PDI) is a homodimer that catalyzes thiol-disulfide exchange, mediates folding of newly synthesized proteins and functions as a molecular chaperone. PDIR (protein disulfide isomerase-related protein), also known as PDIA5 (protein disulfide-isomerase A5), is a 519 amino acid protein that catalyzes the rearrangement of sulfur-sulfur bonds in various proteins. Localized to the lumen of the endoplasmic reticulum (ER), PDIR has an oxidative refolding activity that is specific for α 1-antitrypsin (AAT) and aids in the formation of disulfide bonds in the ER lumen. PDIR contains one ER retention signal at its C-terminus and three thioredoxin (CXXC) motifs which mediate the substrate-specific isomerase, chaperone and redox activity of PDIR.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Pdia5* (mouse) mapping to 16 B3.

PRODUCT

PDIR (m): 293T Lysate represents a lysate of mouse PDIR 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.

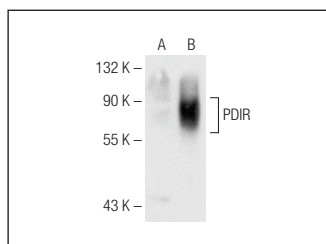
APPLICATIONS

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

PDIR (C-2): sc-365500 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PDIR expression in PDIR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



PDIR (C-2): sc-365500. Western blot analysis of PDIR expression in non-transfected: sc-117752 (A) and mouse PDIR transfected: sc-122469 (B) 293T whole cell lysates.

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.