

PDILT (D-14): sc-165207

BACKGROUND

PDILT (protein disulfide-isomerase-like protein of the testis), also known as PDIA7 (protein disulfide isomerase family A, member 7), is a 584 amino acid protein of the endoplasmic reticulum that is thought to function as a redox-inactive chaperone during spermatogenesis. Expressed specifically in testis, PDILT exists as a homodimer that undergoes post-translational N-glycosylation and belongs to the protein disulfide isomerase family. PDILT associates with Calmegin and Ero1-L, and is encoded by a gene that maps to human chromosome 16p12.3. Chromosome 16 encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PDILT (human) mapping to 16p12.3; Pdilt (mouse) mapping to 7 F2.

SOURCE

PDILT (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PDILT of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165207 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PDILT (D-14) is recommended for detection of PDILT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

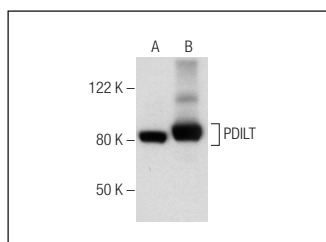
PDILT (D-14) is also recommended for detection of PDILT in additional species, including equine and bovine.

Suitable for use as control antibody for PDILT siRNA (h): sc-93521, PDILT siRNA (m): sc-152138, PDILT shRNA Plasmid (h): sc-93521-SH, PDILT shRNA Plasmid (m): sc-152138-SH, PDILT shRNA (h) Lentiviral Particles: sc-93521-V and PDILT shRNA (m) Lentiviral Particles: sc-152138-V.

Molecular Weight of PDILT: 76 kDa.

Positive Controls: mouse testis extract: sc-2405 or rat testis extract: sc-2400.

DATA



PDILT (D-14): sc-165207. Western blot analysis of PDILT expression in mouse testis (A) and rat testis (B) tissue extracts.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.