

CDYL (E-18): sc-28469

BACKGROUND

CDY, a gene family expressed exclusively in the testis, localizes to a region of the Y chromosome frequently deleted in infertile males. CDY protein contains two functional domains, an N-terminal chromodomain, possibly functioning in heterochromatin interactions, and a C-terminal domain which resembles enoyl-CoA-isomerase, a protein involved in fatty acid oxidation. Furthermore, CDY acts as a histone acetyltransferase, with strong preference for Histone H4, a process required for the histone to proamine transition in spermatogenesis, consistent with the association with male infertility.

REFERENCES

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- Kostova, E., Rottger, S., Schempp, W. and Gromoll, J. 2002. Identification and characterization of the cynomolgus monkey chromodomain gene cynCDY, an orthologue of the human CDY gene family. *Mol. Hum. Reprod.* 8: 702-709.
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CHROMOSOMAL LOCATION

Genetic locus: CDYL (human) mapping to 6p25.1, CDY1/CDY2B/CDY1B/CDY2A Yq11.22-23; Cdy1 (mouse) mapping to 13 A3.3.

SOURCE

CDYL (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CDYL of mouse origin.

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-28469 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

CDYL (E-18) is recommended for detection of CDYL of mouse, rat and human origin and, to a lesser extent, CDY of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

CDYL (E-18) is also recommended for detection of CDYL and, to a lesser extent, CDY in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for CDYL siRNA (m): sc-45272, CDYL shRNA Plasmid (m): sc-45272-SH and CDYL shRNA (m) Lentiviral Particles: sc-45272-V.

Molecular Weight of CDYL: 66 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, rat testis extract: sc-2400 or NTERA-2 cl.D1 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.