

# CDYL (E-8): sc-515793

## 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 also 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. Chromodomain Y-like protein (CDYL) is a related ubiquitous nuclear protein expressed at moderate levels in most tissues. The gene encoding for the CDYL protein localizes to chromosome 6p25.1.

## CHROMOSOMAL LOCATION

Genetic locus: CDYL (human) mapping to 6p25.1; Cdy1 (mouse) mapping to 13 A3.3.

## SOURCE

CDYL (E-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 96-121 near the N-terminus of CDYL of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CDYL (E-8) is available conjugated to agarose (sc-515793 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515793 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515793 PE), fluorescein (sc-515793 FITC), Alexa Fluor<sup>®</sup> 488 (sc-515793 AF488), Alexa Fluor<sup>®</sup> 546 (sc-515793 AF546), Alexa Fluor<sup>®</sup> 594 (sc-515793 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-515793 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-515793 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-515793 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

CDYL (E-8) is recommended for detection of CDYL of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for CDYL siRNA (h): sc-45271, CDYL siRNA (m): sc-45272, CDYL shRNA Plasmid (h): sc-45271-SH, CDYL shRNA Plasmid (m): sc-45272-SH, CDYL shRNA (h) Lentiviral Particles: sc-45271-V and CDYL shRNA (m) Lentiviral Particles: sc-45272-V.

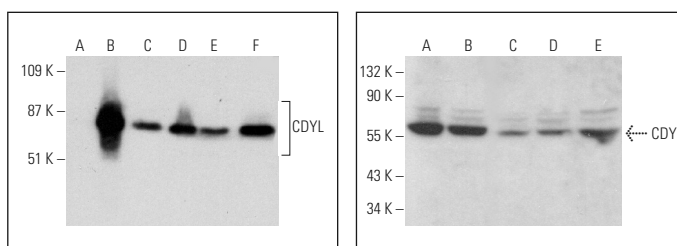
Molecular Weight of CDYL: 66 kDa.

Positive Controls: CDYL (h): 293T Lysate: sc-112015, HeLa nuclear extract: sc-2120 or A-431 nuclear extract: sc-2122.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



CDYL (E-8): sc-515793. Western blot analysis of CDYL expression in non-transfected 293T: sc-117752 (A), human CDYL transfected 293T: sc-112015 (B) and NTERA-2 cl.D1 (C) whole cell lysates and COLO 320DM (D), A-431 (E) and HeLa (F) nuclear extracts.

CDYL (E-8): sc-515793. Western blot analysis of CDYL expression in A-431 nuclear extract (A) and K-562 (B), A-10 (C), F9 (D) and SK-MEL-24 (E) whole cell lysates.

## SELECT PRODUCT CITATIONS

- Zhao, Y., et al. 2019. EZH2 cooperates with gain-of-function p53 mutants to promote cancer growth and metastasis. *EMBO J.* 38: e99599.
- Mehdi, S., et al. 2020. LY75 suppression in mesenchymal epithelial ovarian cancer cells generates a stable hybrid EOC cellular phenotype, associated with enhanced tumor initiation, spreading and resistance to treatment in orthotopic xenograft mouse model. *Int. J. Mol. Sci.* 21: 4992.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. 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](http://www.scbt.com) for detailed protocols and support products.