

# Dymeclin (C-18): sc-49940

## BACKGROUND

Dyggve-Melchior-Clausen syndrome (DMC), a rare autosomal recessive disorder, is characterized by microcephaly, short trunk dwarfism and sometime psychomotor retardation. Cutaneous cells of affected individuals show dilated rough endoplasmic reticulum and enlarged vacuoles. The Dyggve-Melchior-Clausen syndrome protein, also designated Dymeclin, may play a role in proteoglycan metabolism and intracellular protein digestion. It is a widely expressed multi-pass membrane protein, detected primarily in chondrocytes and fetal brain tissue. Defects in dymeclin are also the cause of Smith-McCort dysplasia syndrome (SMC), which has characteristics identical to those of Dyggve-Melchior-Clausen syndrome.

## REFERENCES

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2. Paupe, V., Gilbert, T., Le Merrer, M., Munnich, A., Cormier-Daire, V. and El Ghouzi, V. 2004. Recent advances in Dyggve-Melchior-Clausen syndrome. *Mol. Genet. Metab.* 83: 51-59.
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## CHROMOSOMAL LOCATION

Genetic locus: DYM (human) mapping to 18q21.1; Dym (mouse) mapping to 18 E3.

## SOURCE

Dymeclin (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Dymeclin of human 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-49940 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Dymeclin (C-18) is recommended for detection of Dymeclin 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).

Dymeclin (C-18) is also recommended for detection of Dymeclin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dymeclin siRNA (h): sc-60558, Dymeclin siRNA (m): sc-60559, Dymeclin shRNA Plasmid (h): sc-60558-SH, Dymeclin shRNA Plasmid (m): sc-60559-SH, Dymeclin shRNA (h) Lentiviral Particles: sc-60558-V and Dymeclin shRNA (m) Lentiviral Particles: sc-60559-V.

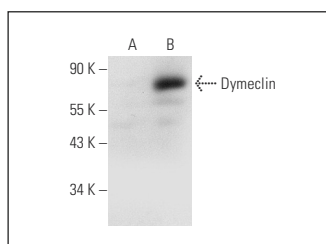
Molecular Weight of Dymeclin: 75 kDa.

Positive Controls: Dymeclin (h2): 293T Lysate: sc-116965, HeLa whole cell lysate: sc-2200 or mouse brain extract: sc-2253.

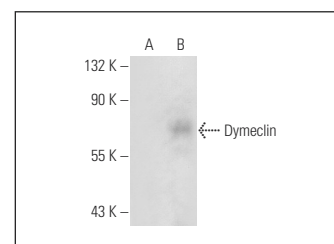
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



Dymeclin (C-18): sc-49940. Western blot analysis of Dymeclin expression in non-transfected: sc-117752 (A) and human Dymeclin transfected: sc-116965 (B) 293T whole cell lysates.



Dymeclin (C-18): sc-49940. Western blot analysis of Dymeclin expression in non-transfected: sc-117752 (A) and human Dymeclin transfected: sc-116965 (B) 293T whole cell lysates.

## 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.