



MEL-28 (cK-12): sc-83429

BACKGROUND

MEL-28 (maternal effect lethal) is a 1784 amino acid protein that localizes to the nuclear envelope (NE) in interphase and kinetochores during mitosis in *Caenorhabditis elegans*. It is suggested that MEL-28 shuttles between the nuclear pore complex (NPC) and kinetochore and is critical for envelope assembly in *C. elegans* early embryos. Mutations of MEL-28 lead to impaired nuclear integrity and abnormal distribution of both NE and NPC proteins. Evolutionarily conserved, MEL-28 may play a role in nuclear organization in eukaryotes. MEL-28 is required for the recruitment of nucleoporins to chromatin and interacts with the Nup107-160 complex, which is an essential building block of the vertebrate nuclear pore.

REFERENCES

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SOURCE

MEL-28 (cK-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MEL-28 of *C. elegans* origin.

RESEARCH USE

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

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-83429 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MEL-28 (cK-12) is recommended for detection of MEL-28 of *Caenorhabditis elegans* 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); non cross-reactive with other Mel family members.

Molecular Weight of MEL-28: 201 kDa.

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.

STORAGE

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

PROTOCOLS

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