

cyclin M4 (C-12): sc-68288

BACKGROUND

cyclin M4 (also designated metal transporter CNNM4, ancient conserved domain-containing protein 4) is a 775 amino acid protein encoded by the human gene CNNM4. cyclin M4 belongs to the ACDP family and contains one CBS domain. cyclin M4 is a probable metal transporter. The interaction of cyclin M4 with the metal ion chaperone COX11 also suggests that it may play a role in sensory neuron functions. cyclin M4 is a multi-pass membrane protein that is widely expressed with high expression found in heart. The name of the protein is derived from the weak sequence similarity it shares with the cyclin family, however, cyclin M4 has no cyclin-like function *in vivo*.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CNNM4 (human) mapping to 2q11.2; Cnm4 (mouse) mapping to 1 B.

SOURCE

cyclin M4 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of cyclin M4 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-68288 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cyclin M4 (C-12) is recommended for detection of cyclin M4 of mouse, rat and 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).

cyclin M4 (C-12) is also recommended for detection of cyclin M4 in additional species, including canine and bovine.

Suitable for use as control antibody for cyclin M4 siRNA (h): sc-77065, cyclin M4 siRNA (m): sc-77066, cyclin M4 shRNA Plasmid (h): sc-77065-SH, cyclin M4 shRNA Plasmid (m): sc-77066-SH, cyclin M4 shRNA (h) Lentiviral Particles: sc-77065-V and cyclin M4 shRNA (m) Lentiviral Particles: sc-77066-V.

Molecular Weight of cyclin M4: 87 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.

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.