



# cyclin M4 (H-180): sc-68438

## 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 2p12-p11.2; Cnnm4 (mouse) mapping to 1 B.

## SOURCE

cyclin M4 (H-180) is a rabbit polyclonal antibody raised against amino acids 21-200 mapping near the N-terminus of cyclin M4 of human 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.

## APPLICATIONS

cyclin M4 (H-180) is recommended for detection of cyclin M4 of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for cyclin M4 siRNA (h): sc-77065 and cyclin M4 siRNA (m): sc-77066.

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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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](http://www.scbt.com) or our catalog for detailed protocols and support products.