



Rabbit Anti-Cyclin M2 antibody

SL6912R

Product Name:	Cyclin M2
Chinese Name:	周期素M2抗体
Alias:	ACDP2; Ancient conserved domain containing protein 2; Ancient conserved domain protein 2; Ancient conserved domain-containing protein 2; CNNM 2; CNNM2; CNNM2_HUMAN; Cyclin M2; Cyclin-M2; Metal transporter CNNM2; OTTHUMP00000020387; OTTHUMP00000020388.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=3ug/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	96kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cyclin M2/CNNM2:51-150/875
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Cyclin M2, also known as CNNM2 or ACDP2 (ancient conserved domain-containing protein 2), is an 875 amino acid multi-pass membrane protein that contains two CBS domains and belongs to the ACDP family. Expressed in a variety of tissues with highest expression in placenta, brain and kidney, cyclin M2 functions as a divalent metal cation

transporter that mediates the transport of several different metal cations, including Mg²⁺, Co²⁺ and Fe²⁺. Cyclin M2 exists as multiple alternatively spliced isoforms and, contrary to its name, exhibits no cyclin-like function in vivo. The gene encoding cyclin M2 maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

Function:

Divalent metal cation transporter. Mediates transport of divalent metal cations in an order of Mg(2+) > Co(2+) > Mn(2+) > Sr(2+) > Ba(2+) > Cu(2+) > Fe(2+

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Tissue Specificity:

Widely expressed. Expressed at higher level in brain, kidney and placenta, while it is weakly expressed in skeletal muscle. In the kidney, it is expressed in the distal convoluted tubule and the thick ascending limb of Henle loop.

DISEASE:

Defects in CNNM2 are the cause of hypomagnesemia type 6 (HOMG6) [MIM:613882]. A renal disease characterized by severely lowered serum magnesium levels in the absence of other electrolyte disturbances. Affected individuals show an inappropriately normal urinary magnesium excretion, demonstrating a defect in tubular reabsorption. Age of clinical onset is highly variable and some affected individuals are asymptomatic.

Similarity:

Belongs to the ACDP family.
Contains 2 CBS domains.
Contains 1 DUF21 domain.

SWISS:

Q9H8M5

Gene ID:

54805

Database links:

[Entrez Gene: 54805](#) Human

[Entrez Gene: 94219](#) Mouse

[Entrez Gene: 294014](#) Rat

[Oimim: 607803](#) Human

[SwissProt: Q9H8M5](#) Human

[SwissProt: Q3TWN3](#) Mouse

[SwissProt: Q5U2P1](#) Rat

[Unigene: 643509](#) Human

[Unigene: 657970](#) Human

[Unigene: 306903](#) Mouse

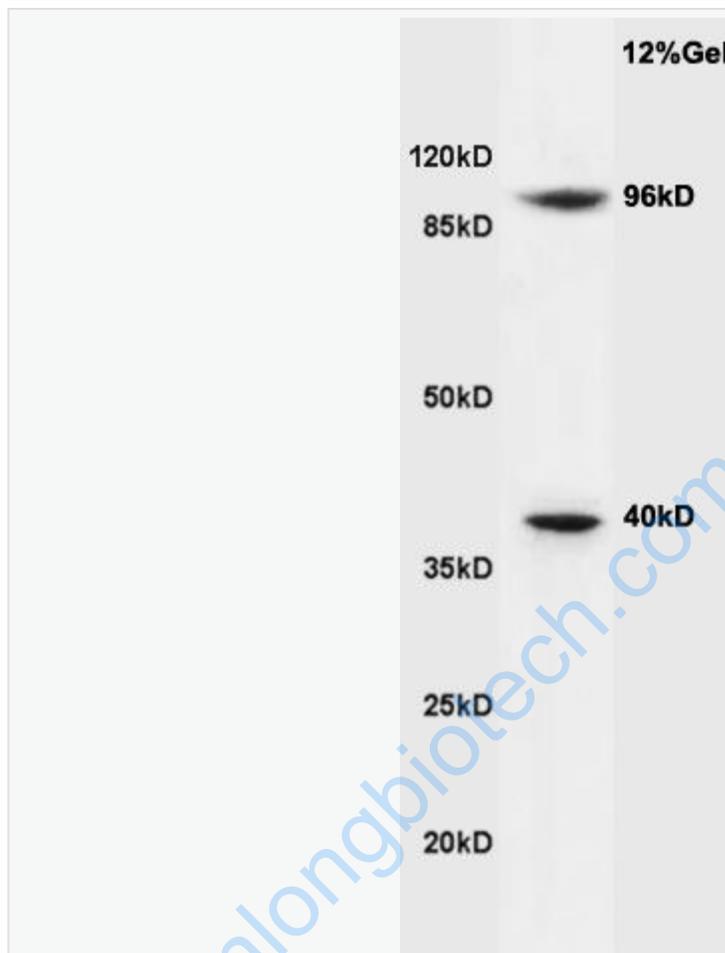
[Unigene: 205139](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



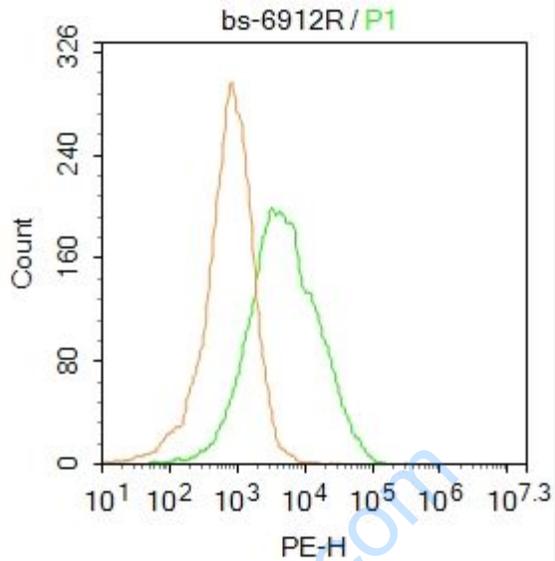
Sample: Brain (Mouse) Lysate at 40 ug

Primary: Anti-Cyclin M2 (SL6912R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL6912R) at 1/5000 dilution

Predicted band size: 96 kD

Observed band size: 96 kD



Blank control: HepG2.

Primary Antibody (green line): Rabbit Anti-Cyclin M2 antibody (SL6912R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 μ g /test.

Protocol

The cells then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.