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Anti-Cyclin M2 Antibody

Catalog # AP51098

Product Information

Application	WB, IF/IC
Primary Accession	Q9H8M5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96623

Additional Information

Gene ID	54805
Other Names	ACDP2; Metal transporter CNNM2; Ancient conserved domain-containing protein 2; Cyclin-M2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cyclin M2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

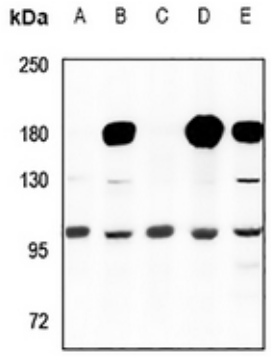
Protein Information

Name	CNNM2
Synonyms	ACDP2
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+) (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	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

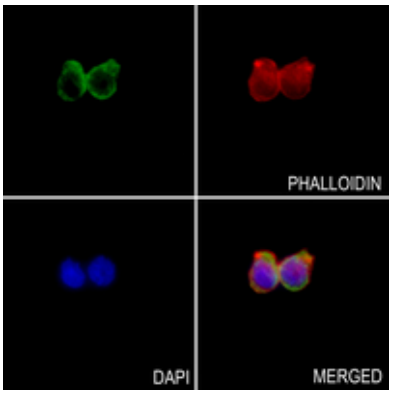
References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Deloukas P.,et al.Nature 429:375-381(2004).
Wang C.-Y.,et al.Gene 306:37-44(2003).
Stuiver M.,et al.Am. J. Hum. Genet. 88:333-343(2011).

Images



Western blot analysis of Cyclin M2 expression in CT26 (A), U87MG (B), PC12 (C), A549 (D), HepG2 (E) whole cell lysates. (Predicted band size: 96 kD; Observed band size: 97 kD)



Immunofluorescent analysis of Cyclin M2 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Citations

- Human CNNM2 is not a Mg(2+) transporter per se.

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