

MCG10 Antibody

Catalog # ASC10145

Product Information

Application	WB, IF, ICC, E
Primary Accession	P57723
Other Accession	EAW65166 , 119585570
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	41482
Conjugate	Unconjugated
Application Notes	MCG10 antibody can be used for detection of MCG10 by Western blot at 0.5 - 2 μ g/mL. Antibody can also be used for immunocytochemistry starting at 1 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	57060
Other Names	MCG10 Antibody: CBP, LIP4, MCG10Alpha-CP4, poly(rC) binding protein 4
Target/Specificity	PCBP4;
Reconstitution & Storage	MCG10 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	MCG10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PCBP4
Function	Single-stranded nucleic acid binding protein that binds preferentially to oligo dC.
Cellular Location	Cytoplasm.

Background

MCG10 Antibody: MCG10 is a member of the KH-domain RNA-binding protein family. Proteins of this family also referred to as alpha-CPs, bind to RNA with specificity for C-rich pyrimidine regions. Alpha-CPs play

important roles in post-transcriptional activities and have different cellular distributions. MCG10 is induced by p53 and DNA damage via two p53-responsive promoter elements. Its overexpression in transfected cells results in the suppression of cell proliferation by inducing apoptosis and cell cycle arrest in G2-M. Decreased expression of one isoform of MCG10 has been observed in many forms of lung cancer, leading to speculation that MCG10 can act as a tumor suppressor. Multiple alternatively spliced isoforms of MCG10 have been identified.

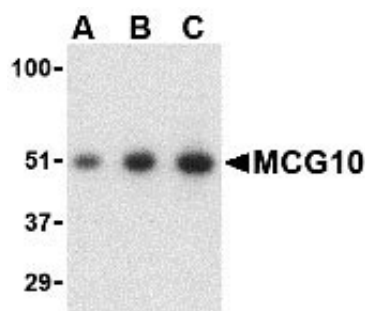
References

Makeyev AV and Liebhaber SA. The poly(C)-binding proteins: a multiplicity of functions and a search for mechanisms. *RNA*2002; 8:265-78.

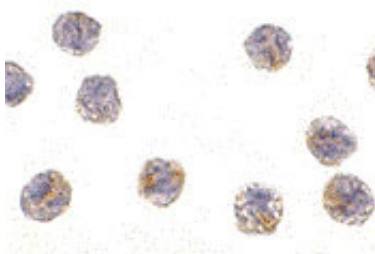
Zhu J and Chen X. MCG10, a novel p53 target gene that encodes a KH domain RNA-binding protein, is capable of inducing apoptosis and cell cycle arrest in G2-M. *Mol. Cell Biol.*2000; 20:5602-5618.

Pio R, Zudaire I, Pino I, et al. a-CP-4, encoded by a putative tumor suppressor gene at 3p21, but not its alternative splice variant aCP-4a, is underexpressed in lung cancer. *Cancer Res.*2004; 64:4171-9.

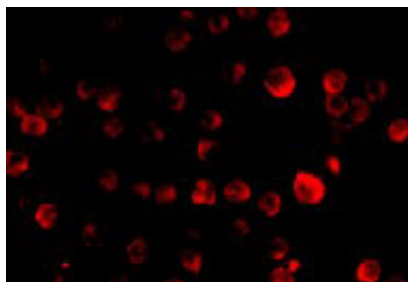
Images



Western blot analysis of MCG10 in HeLa cell lysate with MCG10 antibody at (A) 0.5, (B) 1 and (C) 2 µg/mL.



Immunocytochemistry of MCG10 in HeLa cells with MCG10 antibody at 1 µg/mL.



Immunofluorescence of MCG10 in HeLa cells with MCG10 antibody at 20 µg/mL.

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