

MED28 Antibody

Catalog # ASC10737

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9H204
Other Accession	NP_079481 , 52851391
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	19520
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	MED28 antibody can be used for detection of MED28 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	80306
Other Names	Mediator of RNA polymerase II transcription subunit 28, Endothelial-derived protein 1, Mediator complex subunit 28, Merlin and Grb2-interacting cytoskeletal protein, Magicin, Tumor angiogenesis marker EG-1, MED28, EG1
Target/Specificity	MED28;
Reconstitution & Storage	MED28 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	MED28 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MED28
Synonyms	EG1
Function	Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene- specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex

with RNA polymerase II and the general transcription factors. May be part of a complex containing NF2/merlin that participates in cellular signaling to the actin cytoskeleton downstream of tyrosine kinase signaling pathways.

Cellular Location

Nucleus. Cytoplasm. Membrane; Peripheral membrane protein
Note=According to PubMed:15467741, it is cytoplasmic and mainly membrane-associated

Tissue Location

Widely expressed. Highly expressed in vascular tissues such as placenta, testis and liver

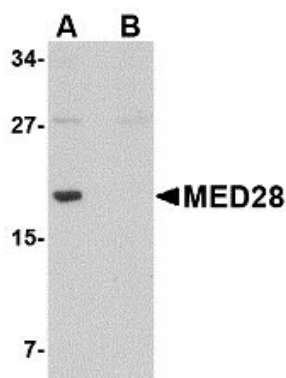
Background

MED28 Antibody: The mediator complex is a multi-protein transcriptional co-activator that is expressed ubiquitously in eukaryotes from yeast to mammals and is required for induction of RNA polymerase II (pol II) transcription by DNA binding transcription factor. One of the proteins in this complex is MED28, also known as Magicin. MED28 is expressed in many cell lines and tissues. It has been shown that a down-regulation of MED28 expression in NIH3T3 cells results in a significant induction of several genes associated with smooth muscle cell differentiation and conversely its over-expression represses expression of SMC genes. MED28 can also form a ternary complex with Grb2 and Merlin, the neurofibromatosis 2 tumor suppressor protein, indicating that MED28 may play a role in Merlin's tumor suppressive activity. MED28 has also been recently identified as an HIV dependency factor (HDF), suggesting that MED28 may be an important drug target in HIV treatment. At least two isoforms of MED28 are known to exist.

References

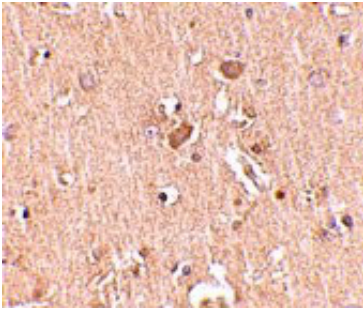
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Beyer KS, Beauchamp RL, Lee MF, et al. Mediator subunit MED28 (Magicin) is a repressor of smooth muscle cell differentiation. *J. Biol. Chem.*2007; 282:32152-7.
Wiederhold T, Lee MF, James M, et al. Magicin, a novel cytoskeletal protein associates with the NF2 tumor suppressor merlin and Grb2. *Oncogene*2004; 23:8815-25.
Brass AL, Dykxhoorn DM, Benita Y, et al. Identification of host proteins required for HIV infection through a functional genomic screen. *Science*2008; 319:921-6.

Images



Western blot analysis of MED28 in human brain tissue lysate with MED28 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

Immunohistochemistry of MED28 in human brain tissue with MED28 antibody at 2.5 µg/mL.



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