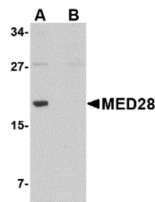


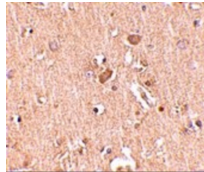


# MED28 Antibody

Cat. No.: 4731



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.

## Ψ Specifications

<b>HOST SPECIES:</b>	Rabbit
<b>SPECIES REACTIVITY:</b>	Human, Mouse
<b>HOMOLOGY:</b>	Predicted species reactivity based on immunogen sequence: Rat: (100%), Bovine: (100%)
<b>IMMUNOGEN:</b>	MED28 antibody was raised against a 17 amino acid synthetic peptide from near the center of human MED28.  The immunogen is located within amino acids 50 - 100 of MED28.
<b>TESTED APPLICATIONS:</b>	ELISA, IHC-P, WB

<b>APPLICATIONS:</b>	MED28 antibody can be used for detection of MED28 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.  Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested.
<b>POSITIVE CONTROL:</b>	1) Cat. No. 1303 - Human Brain Tissue Lysate
	2) Cat. No. 10-301 - Human Brain Tissue Slide

## Ψ Properties

<b>PURIFICATION:</b>	MED28 Antibody is affinity chromatography purified via peptide column.
<b>CLONALITY:</b>	Polyclonal
<b>ISOTYPE:</b>	IgG
<b>CONJUGATE:</b>	Unconjugated
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	MED28 Antibody is supplied in PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/mL
<b>STORAGE CONDITIONS:</b>	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.

## Ψ Additional Info

<b>OFFICIAL SYMBOL:</b>	MED28
<b>ALTERNATE NAMES:</b>	MED28 Antibody: EG1, magicin, 1500003D12Rik, EG1, FKSG20, Mediator of RNA polymerase II transcription subunit 28, Endothelial-derived protein 1, Magicin
<b>ACCESSION NO.:</b>	NP_079481
<b>PROTEIN GI NO.:</b>	52851391
<b>GENE ID:</b>	80306
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.

## Ψ Background and References

<b>BACKGROUND:</b>	<p>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.</p>
<b>REFERENCES:</b>	<p>1) Sato S, Tomomori-Sato C, Parmely TJ, et al. A set of consensus mammalian mediator subunits identified by multidimensional protein identification technology. <i>Mol. Cell</i>2004; 14:685-91.</p>
	<p>2) Beyer KS, Beauchamp RL, Lee MF, et al. Mediator subunit MED28 (Magicin) is a repressor of smooth muscle cell differentiation. <i>J. Biol. Chem.</i>2007; 282:32152-7.</p>
	<p>3) Wiederhold T, Lee MF, James M, et al. Magicin, a novel cytoskeletal protein associates with the NF2 tumor suppressor merlin and Grb2. <i>Oncogene</i>2004; 23:8815-25.</p>
	<p>4) Brass AL, Dykxhoorn DM, Benita Y, et al. Identification of host proteins required for HIV infection through a functional genomic screen. <i>Science</i>2008; 319:921-6.</p>

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