

**MED4 Antibody**  
**Catalog # ASC10736****Specification**

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**MED4 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q9NPJ6</a>
Other Accession	<a href="#">NP_054885</a> , <a href="#">7661788</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	MED4 antibody can be used for detection of MED4 by Western blot at 0.5 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL.

**MED4 Antibody - Additional Information**Gene ID **29079****Target/Specificity**

MED4; At least three isoforms of MED4 are known to exist; this antibody only recognizes the largest isoform.

**Reconstitution & Storage**

MED4 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**

MED4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**MED4 Antibody - Protein Information****Name** MED4**Synonyms** ARC36, DRIP36, VDRIP**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.

**Cellular Location**

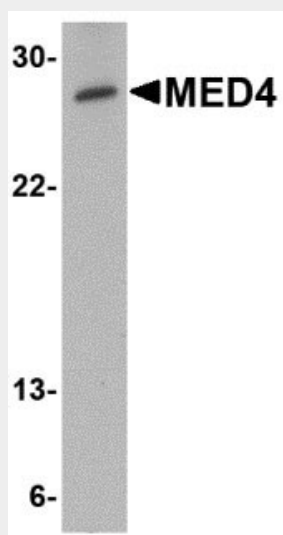
Nucleus.

### MED4 Antibody - Protocols

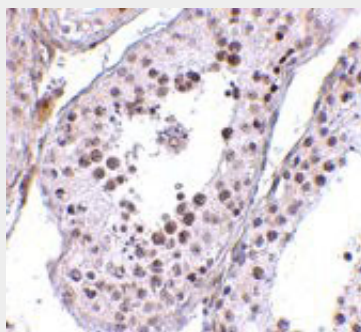
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### MED4 Antibody - Images



Western blot analysis of MED4 in human testis tissue lysate with MED4 antibody at 0.5  $\mu$ g/mL.



Immunohistochemistry of MED4 in human testis tissue with MED4 antibody at 10  $\mu$ g/mL.

### MED4 Antibody - Background

**MED4 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 MED4. This protein has also been shown to be part of the vitamin D receptor interacting

complex. MED4 was recently identified as an HIV dependency factor (HDF), suggesting that MED4 may be an important drug target in HIV treatment.

#### **MED4 Antibody - References**

Sato S, Tomomori-Sato C, Parmely TJ, et al. A set of consensus mammalian mediator subunits identified by multidimensional protein identification technology. *Mol. Cell*2004; 14:685-91.  
Gustafsson CM, Myers LC, Beve J, et al. Identification of new mediator subunits in the RNA polymerase II holoenzyme from *Saccharomyces cerevisiae*. *J. Biol. Chem.*1998; 273:30851-4.  
Rachez C, Lemon BD, Suldan Z, et al. Ligand-dependent transcription activation by nuclear receptors requires the DRIP complex. *Nature*1999; 398:824-8.  
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.