

MED1 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R Mk	Endogenous	220	Rabbit	#Q15648	5469

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

MED1 Antibody recognizes endogenous levels of total MED1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His591 of human MED1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The mediator complex consists of about 25-30 proteins and is thought to facilitate transcription activation by acting as a molecular bridge between the RNA polymerase II (RNAPII) machinery and transcription factors (1). Mediator is recruited to target genes by transcription factors and plays an essential role in the recruitment and stabilization of the RNAPII transcription complex at promoters, as well as the activation of transcription post RNAPII recruitment (1-5). The mediator complex also plays an important role in creating 'chromatin loops' that occur as a result of interactions between the transcription factor bound at distal enhancers and RNAPII bound at the proximal promoter, and works to sustain proper chromatin architecture during active transcription (6-8).

Background References

1. Taatjes, D.J. (2010) *Trends Biochem Sci* 35, 315-22.
2. Kornberg, R.D. (2005) *Trends Biochem Sci* 30, 235-9.
3. Malik, S. and Roeder, R.G. (2005) *Trends Biochem Sci* 30, 256-63.
4. Malik, S. et al. (2002) *Mol Cell Biol* 22, 5626-37.
5. Wang, G. et al. (2005) *Mol Cell* 17, 683-94.
6. Kagey, M.H. et al. (2010) *Nature* 467, 430-5.
7. Park, S.W. et al. (2005) *Mol Cell* 19, 643-53.
8. Chen, Z. et al. (2011) *EMBO J* 30, 2405-19.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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