

#14950 Store at -20C

MED26 (D4B1X) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, ChIP	H	Endogenous	70	Rabbit IgG	#O95402	9441

Product Usage Information

For optimal ChIP results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Chromatin IP	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

MED26 (D4B1X) Rabbit mAb recognizes endogenous levels of total MED26 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro120 of human MED26 protein.

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). Mediator complex subunit 26 (MED26) plays a critical role in the transition of RNAPII from the initiation to elongation phase of transcription. The amino-terminal domain of MED26 is required for recruitment of the ELL- and pTEFb-containing complexes to target genes, which facilitates transcription elongation (9).

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.
9. Takahashi, H. et al. (2011) *Cell* 146, 92-104.

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

WB: Western Blotting **IP:** Immunoprecipitation **ChIP:** Chromatin IP

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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