

**CoREST (D6I2U) Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	65	Rabbit IgG	#Q9UKL0	23186

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**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**

CoREST (D6I2U) Rabbit mAb recognizes endogenous levels of total CoREST protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human CoREST protein.

**Background**

The REST corepressor 1 (CoREST, RCOR1) was first identified as a repressor element 1-silencing transcription factor (REST) corepressor (1,2). The CoREST protein is encoded by the *RCOR1* gene and is part of a large, multi-subunit repressor complex that includes the histone demethylase LSD1 and histone deacetylases (HDAC) 1 and 2 (1,3-5). CoREST binds the carboxy-terminal domain of REST and is recruited to repress neuronal gene transcription in non-neuronal and neural stem cells (1,6,7). The REST corepressor is essential for repressor complex-nucleosome interaction, the subsequent deacetylation of histone amino-terminal tails by HDAC1/2, and the LSD1 methylation of histone H3 at Lys4 (8-10). The targeting of CoREST to genes that are not repressed by REST suggests a role apart from neural cell fate regulation. These include growth factor independent (Gfi) target genes during erythroid differentiation, targets of carboxy-terminal binding protein (CtBP), and heat shock and pro-inflammatory response genes (11-15).

**Background References**

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7. Ballas, N. and Mandel, G. (2005) *Curr Opin Neurobiol* 15, 500-6.
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12. Yao, H. et al. (2014) *Blood* 123, 3175-84.
13. Gómez, A.V. et al. (2008) *Mol Cell* 31, 222-31.
14. Saijo, K. et al. (2009) *Cell* 137, 47-59.
15. Chinnadurai, G. (2002) *Mol Cell* 9, 213-24.

**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

**Cross-Reactivity Key**

**H:** Human

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