

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), also known as 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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13. Gómez, A.V. et al. (2008) *Mol Cell* 31, 222-31.
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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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