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[Primary Antibody]

Rabbit Anti-COREST antibody

Catalog Number: SL13992R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	COREST
Immunogen:	KLH conjugated synthetic peptide derived from human COREST: 201-300/482
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Sheep)
Predicted MW.:	53kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a protein that is well-conserved, downregulated at birth, and with a specific role in determining neural cell differentiation. The encoded protein binds to the C-terminal domain of REST (repressor element-1 silencing transcription factor). [provided by RefSeq, Aug 2011] **Function:** Essential component of the BHC complex, a corepressor complex that represses transcription of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. In the BHC complex, it serves as a molecular beacon for

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	the recruitment of molecular machinery, including MeCP2 and SUV39H1, that imposes silencing across a chromosomal interval. Plays a central role in demethylation of Lys-4 of histone H3 by promoting demethylase activity of KDM1A on core histones and nucleosomal substrates. It also protects KDM1A from the proteasome. **Subcellular Location:** Nucleus. Upon infection by HSV-1, it is partially translocated into the cytoplasm in an HSV-1-dependent manner. **Tissue Specificity:** Ubiquitously expressed. **Post-translational modifications:** Phosphorylated by HSV-1 protein kinases in case of infection. **Similarity:** Belongs to the CoREST family. Contains 1 ELM2 domain. Contains 2 SANT domains. **Database links:** **Entrez Gene:** 23186 Human **Entrez Gene:** 217864 Mouse Omim: 607675 Human **SwissProt:** Q9UKL0 Human **SwissProt:** Q8CFE3 Mouse **Unigene:** 510521 Human **Unigene:** 23808 Mouse

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