# Human/Mouse RCOR1/CoREST Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6047U
100 µg

## DESCRIPTION

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| **Species Reactivity** | Human/Mouse |
| **Specificity** | Detects human and mouse RCOR1/CoREST in direct ELISAs and Western blots. |
| **Source** | Polyclonal Sheep IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human RCOR1/CoREST<br>Ala397-Ser486<br>Accession # Q9UKL0 |
| **Conjugate** | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

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| **Western Blot** | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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| **Shipping** | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

## BACKGROUND

RCOR1 (REST [RE-1 silencing transcription factor] CORepressor 1; also CoREST) is a 64-66 kDa member of the CoREST family of proteins. It is a nuclear protein that is ubiquitously expressed. RCOR1 serves as a molecular bridge, linking REST with Sin3, HDAC, LSD1, histone H3 K9 methyltransferases, and MeCP2. This creates a complex that represses the expression of neuron-specific genes in nonneuronal cells, principally by coordinating the demethylation of Lys4 in histone H3. Human RCOR1 is 482 amino acids (aa) in length. It contains one ELM2 domain (aa 102-157) that interacts with HDAC, and two SANT sequences (aa 187-238 and 378-429) that bind DNA tandem repeats. There are three potential RCOR1 splice variants. One contains a four aa substitution for aa 296-482, a second shows an alternative start site 3 aa upstream of the standard site, while a third shares the same upstream start site accompanied by a 15 aa substitution for aa 471-482. Over aa 394-482, human RCOR1 shares 93% aa identity with mouse RCOR1.

## PRODUCT SPECIFIC NOTICES

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