

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human RCOR1/CoREST in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human RCOR3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 658526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human RCOR1/CoREST Ala394-Ser482 Accession # Q9UKL0
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

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

PREPARATION AND STORAGE

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 me-thyltransferases, 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

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.