

Human RCOR1/CoREST Antibody

Monoclonal Mouse IgG_{2B} Clone # 658526 Catalog Number: MAB6047

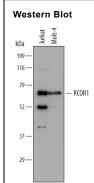
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human RCOR1/CoREST in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human RC is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 658526		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human RCOR1/CoREST Ala394-Ser482 Accession # Q9UKL0		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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.

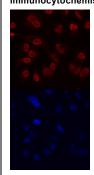
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	Recommended Concentration	Sample	
Western Blot	1 μg/mL	See Below	
Immunocytochemistry	8-25 μg/mL	See Below	

DATA



Detection of Human RCOR1/CoREST by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line and MOLT-4 human acute lymphoblastic leukemia cell line. PVDF Membrane was probed with 1 µg/mL of Human RCOR1/CoREST Monoclonal Antibody (Catalog # MAB6047) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for RCOR1/CoREST at approximately 64-66 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



RCOR1/CoREST in HeLa Human Cell Line. RCOR1/CoREST was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Human RCOR1/CoREST Monoclonal Antibody (Catalog # MAB6047) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthemLights™ 557-conjugated Antl-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE				
Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.			

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

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 ubiqui-tously 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 vari-ants. 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.

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