

### Anti-CoREST antibody [EPR13826(B)] ab181139

Recombinant RabMAb

4 Images

#### Overview

<b>Product name</b>	Anti-CoREST antibody [EPR13826(B)]
<b>Description</b>	Rabbit monoclonal [EPR13826(B)] to CoREST
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Jurkat, HeLa and MOLT4 cell lysates; Jurkat cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13826(B)
<b>Isotype</b>	IgG

#### Applications

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181139 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/150. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 66 kDa (predicted molecular weight: 53 kDa).

## Target

### 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 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.

### Tissue specificity

Ubiquitously expressed.

### Sequence similarities

Belongs to the CoREST family.

Contains 1 ELM2 domain.

Contains 2 SANT domains.

### Domain

The SANT domains may bridge the nucleosomal substrates and the demethylase KDM1A.

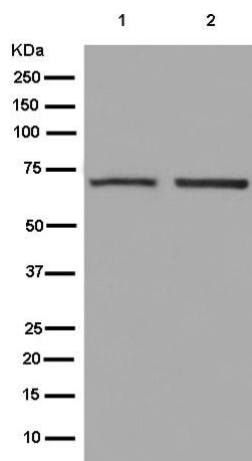
### Post-translational modifications

Phosphorylated by HSV-1 protein kinases in case of infection.

### Cellular localization

Nucleus. Upon infection by HSV-1, it is partially translocated into the cytoplasm in an HSV-1-dependent manner.

## Images



Western blot - Anti-CoREST antibody  
[EPR13826(B)] (ab181139)

**All lanes :** Anti-CoREST antibody [EPR13826(B)] (ab181139) at 1/2000 dilution

**Lane 1 :** Jurkat cell lysate

**Lane 2 :** HeLa cell lysate

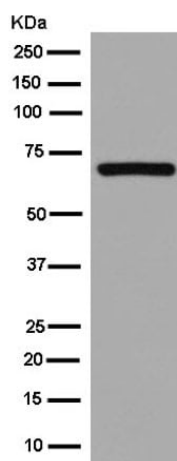
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 53 kDa

**Observed band size:** 66 kDa



Western blot - Anti-CoREST antibody  
[EPR13826(B)] (ab181139)

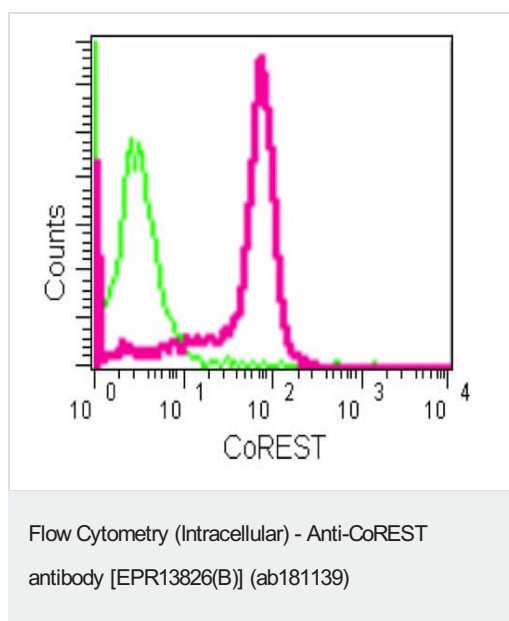
Anti-CoREST antibody [EPR13826(B)] (ab181139) at 1/10000 dilution + MOLT4 cell lysate at 20 µg

#### Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution





**Predicted band size:** 53 kDa

**Observed band size:** 66 kDa



Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat cells labeling CoREST with ab181139 at 1/150 (red) compared to a Rabbit monoclonal IgG isotype control (green), followed by Goat anti rabbit IgG (FITC) secondary antibody at 1/150 dilution.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-CoREST antibody [EPR13826(B)] (ab181139)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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