

Product datasheet

Anti-CoREST antibody [EPR13826(B)] ab181139

Recombinant RabMAb

3 Images

Overview

Product name	Anti-CoREST antibody [EPR13826(B)]
Description	Rabbit monoclonal [EPR13826(B)] to CoREST
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human CoREST aa 450 to the C-terminus. The exact sequence is proprietary. Database link: Q9UKL0
Positive control	Jurkat, HeLa and MOLT4 cell lysates; Jurkat cells.
General notes	

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13826(B)
Isotype	IgG

Applications

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

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.

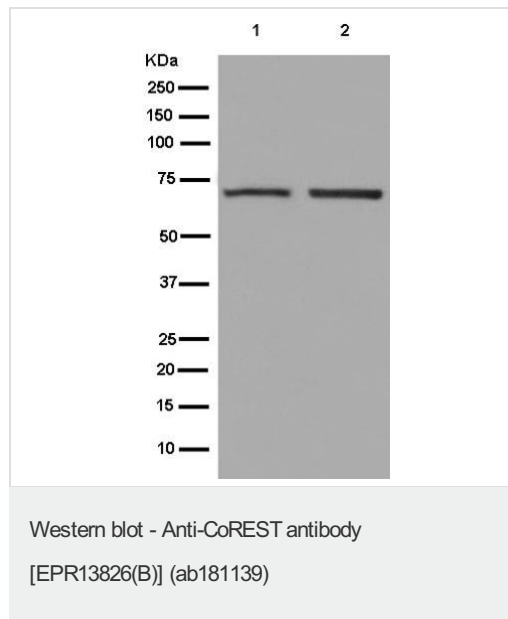
Post-translational modifications

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



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.

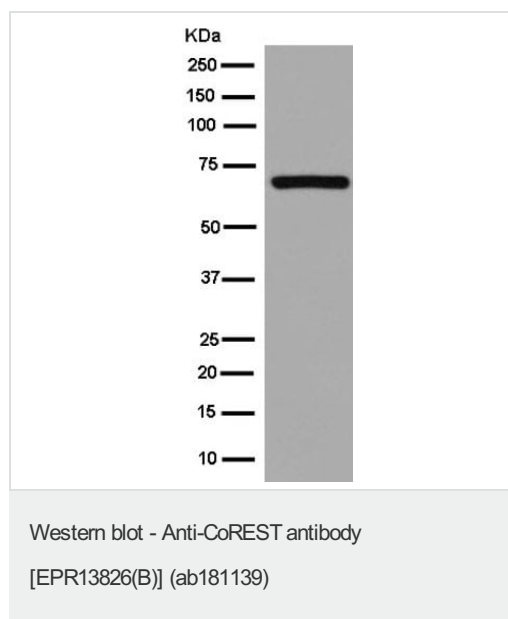
Secondary

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

Predicted band size: 53 kDa

Observed band size: 66 kDa

[why is the actual band size different from the predicted?](#)



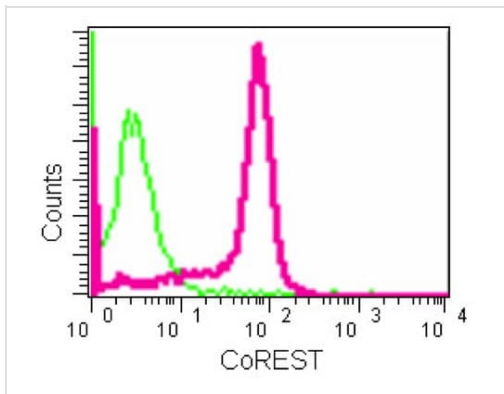
Anti-CoREST antibody [EPR13826(B)] (ab181139) at 1/10000 dilution + MOLT4 cell lysate at 20 µg

Secondary

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

Predicted band size: 53 kDa

Observed band size: 66 kDa [why is the actual band size different from the predicted?](#)



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

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.

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

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