

Product datasheet

Anti-C14orf169 / NO66 antibody [EPR18656] ab192861

Recombinant RabMAb

5 Images

Overview

<b>Product name</b>	Anti-C14orf169 / NO66 antibody [EPR18656]
<b>Description</b>	Rabbit monoclonal [EPR18656] to C14orf169 / NO66
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment within Human C14orf169/ NO66 aa 250-450. The exact sequence is proprietary. Database link: <a href="#">Q9H6W3</a>
<b>Positive control</b>	WB: HeLa, HEK-293, U-2 OS, NCCIT, F9, LLC, mESC,C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Human fetal liver lysate; Mouse lung lysate. IP: HEK-293 whole cell lysate.

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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> 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<sup>™</sup> 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

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<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>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18656
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab192861** 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. Detects a band of approximately 71 kDa (predicted molecular weight: 71 kDa).
IP		1/50.

## Target

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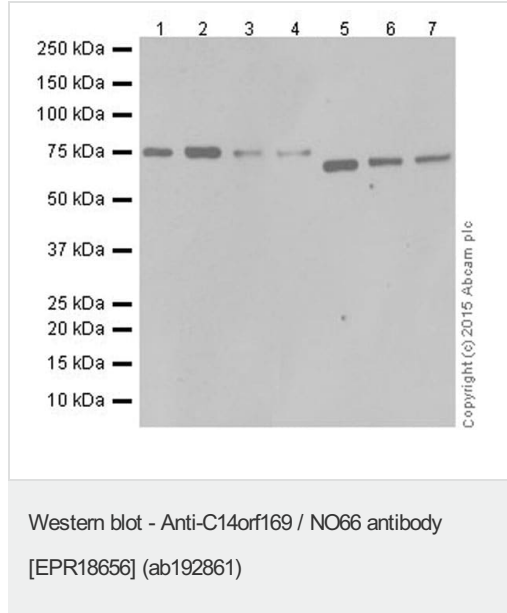
<b>Function</b>	Histone demethylase that specifically demethylates 'Lys-4' (H3K4me) and 'Lys-36' (H3K36me) of histone H3, thereby playing a central role in histone code. Preferentially demethylates trimethylated H3 'Lys-4' (H3K4me3) and monomethylated H3 'Lys-4' (H3K4me1) residues, while it has weaker activity for dimethylated H3 'Lys-36' (H3K36me2). Acts as a regulator of osteoblast differentiation via its interaction with SP7/OSX by demethylating H3K4me and H3K36me, thereby inhibiting SP7/OSX-mediated promoter activation (By similarity). May also play a role in ribosome biogenesis and in the replication or remodeling of certain heterochromatic region.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the MINA53/NO66 family. NO66 subfamily.

Contains 1 JmjC domain.

## Cellular localization

Nucleus > nucleolus. Nucleus > nucleoplasm. Granular part of nucleoli. Nucleoplasm, nucleoplasmic foci, some of them associated with nucleoli.

## Images



**All lanes :** Anti-C14orf169 / NO66 antibody [EPR18656] (ab192861) at 1/1000 dilution

**Lane 1 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 2 :** HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

**Lane 3 :** U-2 OS (Human bone osteosarcoma epithelial cell line) whole cell lysate

**Lane 4 :** NCCIT (Human pluripotent embryonic carcinoma cell line) whole cell lysate

**Lane 5 :** F9 (Mouse embryonic testicular cancer cell line) whole cell lysate

**Lane 6 :** LLC (Mouse lung carcinoma cell line) whole cell lysate

**Lane 7 :** mESC (Mouse embryonic stem cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

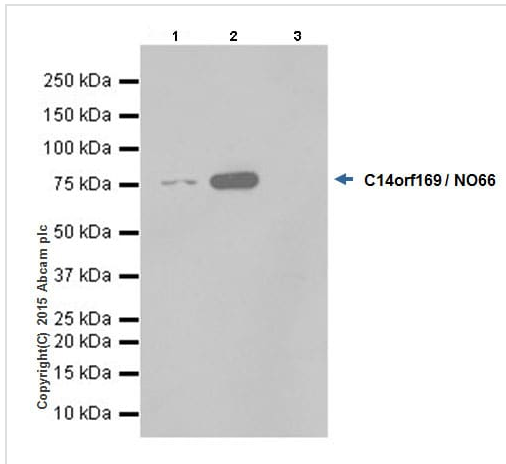
**Predicted band size:** 71 kDa

**Observed band size:** 71 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The predicted MW of human's, mouse's and rat's NO66 are 71kDa, 68kDa and 67kDa, respectively.



Immunoprecipitation - Anti-C14orf169 / NO66 antibody [EPR18656] (ab192861)

C14orf169 / NO66 was immunoprecipitated from 1mg of HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate with ab192861 at 1/50 dilution.

Western blot was performed from the immunoprecipitate using ab192861 at 1/1000 dilution.

VeriBlot for IP Detection Reagent(HRP) (ab131366), was used for detection at 1/10000 dilution.

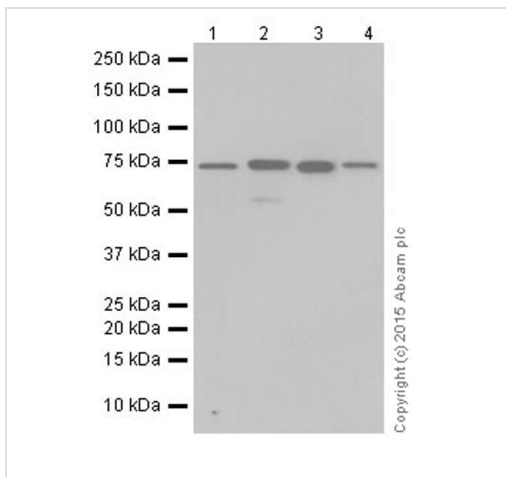
Lane 1: HEK-293 whole cell lysate, 10µg (Input).

Lane 2: ab192861 IP in HEK-293 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR18656]-Isotype Control (ab172730) instead of ab192861 in HEK-293 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.



Western blot - Anti-C14orf169 / NO66 antibody [EPR18656] (ab192861)

**All lanes** : Anti-C14orf169 / NO66 antibody [EPR18656] (ab192861) at 1/1000 dilution

**Lane 1** : C6 (Rat glial tumor cell line) whole cell lysate

**Lane 2** : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

**Lane 3** : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 4** : NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

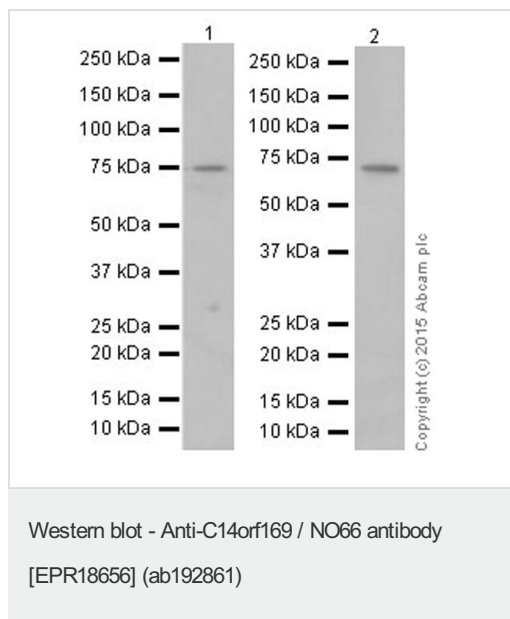
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 71 kDa

**Observed band size:** 71 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



**All lanes :** Anti-C14orf169 / NO66 antibody [EPR18656] (ab192861) at 1/200 dilution

**Lane 1 :** Human fetal liver lysate

**Lane 2 :** Mouse lung lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**Lane 1 :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Lane 2 :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 71 kDa

**Observed band size:** 71 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Why choose a recombinant antibody?

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

Anti-C14orf169 / NO66 antibody [EPR18656] (ab192861)

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

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- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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