

Product datasheet

Anti-PHD finger protein 1/PHF1 antibody [EPR14222] ab184951

Recombinant RabMAb

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Overview

Product name	Anti-PHD finger protein 1/PHF1 antibody [EPR14222]
Description	Rabbit monoclonal [EPR14222] to PHF1
Host species	Rabbit
Specificity	This antibody is specific to PHD finger protein 1, not paired helical filaments.
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, ICC/IF, WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293, Jurkat, MCF7 and Human fetal brain lysates; Human pancreas and Rat skeletal muscle tissues; MCF7 cells; 293 cells. Mouse and rat brain tissue lysate. NIH/3T3, RAW264.7, C6 and PC-12 whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol, 0.05% BSA, PBS</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR14222
Isotype	IgG

Applications

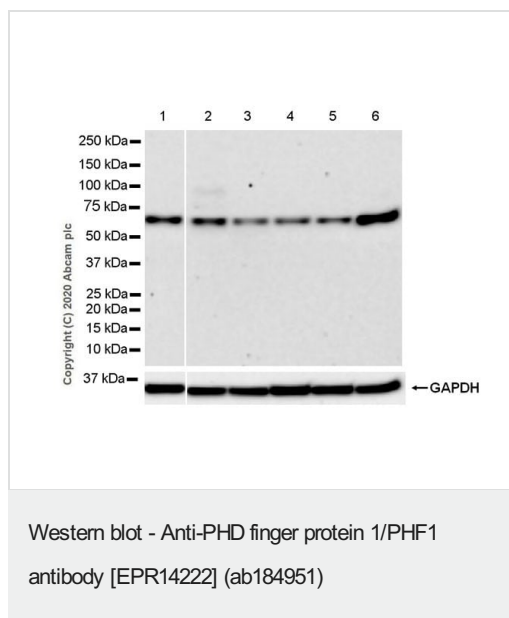
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab184951 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/160. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.
WB		1/1000 - 1/10000. Detects a band of approximately 62 kDa (predicted molecular weight: 62 kDa).
IP		1/30.

Target

Function	Transcriptional repressor. May promote methylation of histone H3 on 'Lys-27' by the PRC2/EED-EZH2 complex.
Tissue specificity	Highest levels in heart, skeletal muscle, and pancreas, lower levels in brain, placenta, lung, liver and kidney.
Sequence similarities	Contains 2 PHD-type zinc fingers.
Cellular localization	Nucleus. Localizes specifically to the promoters of numerous target genes.

Images



All lanes : Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951) at 1/1000 dilution

Lane 1 : Mouse brain tissue

Lane 2 : NIH/3T3 (mouse embryonic fibroblast) whole cell lysate

Lane 3 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Lane 4 : Rat brain tissue lysate

Lane 5 : C6 (rat glial tumor glial cell) whole cell lysate

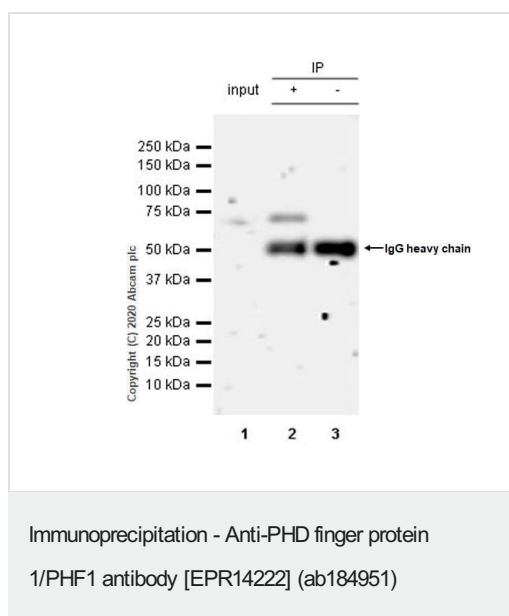
Lane 6 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution

Predicted band size: 62 kDa



PHF1 was immunoprecipitated from 0.35 mg Mouse brain tissue lysate 10 µg with ab184951 at 1/30 dilution (2 µg in 0.35 mg lysates).

Western blot was performed on the immunoprecipitate using ab184951 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(**ab131366**) was used at 1/5000 dilution.

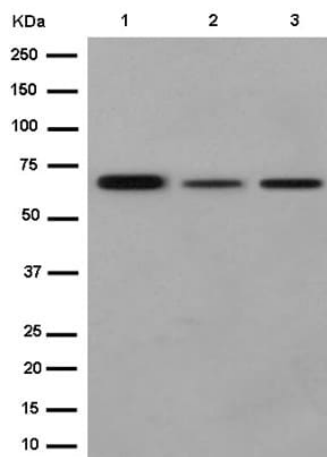
Lane 1: Mouse brain tissue lysate 10 µg

Lane 2: ab184951 IP in Mouse brain tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab184951 in mouse brain tissue lysate

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

Exposure time: 3 minutes



Western blot - Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951)

All lanes : Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951) at 1/20000 dilution

Lane 1 : 293 lysate

Lane 2 : Jurkat lysate

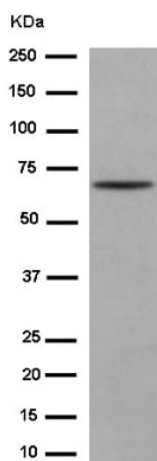
Lane 3 : MCF7 lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 62 kDa



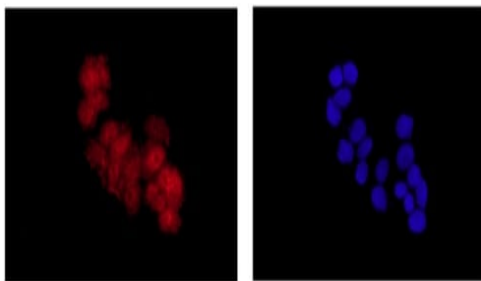
Western blot - Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951)

Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951) at 1/5000 dilution + Human fetal brain lysate at 10 µg

Secondary

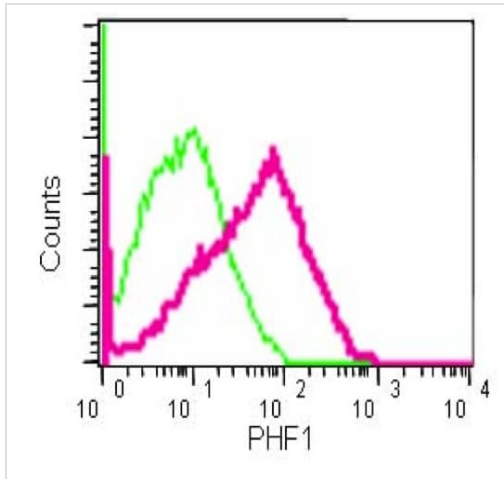
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 62 kDa



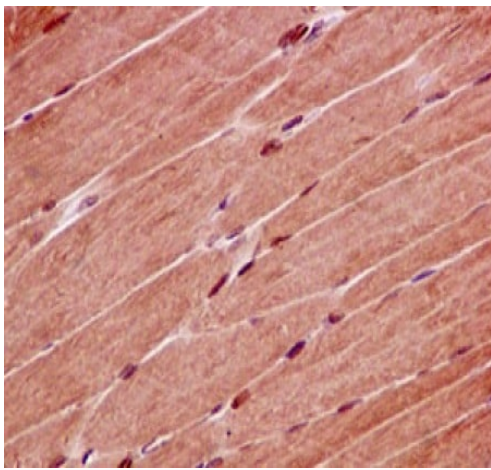
Immunocytochemistry/ Immunofluorescence - Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951)

Immunofluorescent analysis of MCF7 cells (4% paraformaldehyde-fixed) labeling PHF1 with ab184951 at 1/500 dilution followed by Goat anti rabbit IgG (AlexaFluor® 555) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Flow Cytometry (Intracellular) - Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951)

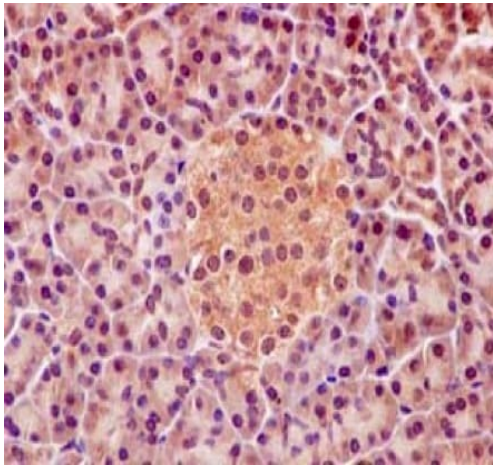
Intracellular flow cytometric analysis of 293 cells (2% paraformaldehyde-fixed) labeling PHF1 with ab184951 at 1/160 dilution (red) compared to a negative control antibody (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD finger protein 1/PHF1 antibody [EPR14222] (ab184951)

Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labeling PHF1 with ab184951 at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling PHF1 with ab184951 at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD finger protein
1/PHF1 antibody [EPR14222] (ab184951)

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-PHD finger protein 1/PHF1 antibody
[EPR14222] (ab184951)

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

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