abcam

Product datasheet

Anti-PHD finger protein 6/PHF6 antibody [EPR11997] ab173304

KO VALIDATED Recombinant RabMAb

1 References 4 Images

Overview

Product name	Anti-PHD finger protein 6/PHF6 antibody [EPR11997]
Description	Rabbit monoclonal [EPR11997] to PHD finger protein 6/PHF6
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF **Unsuitable for:** Flow Cyt,IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, A431, HEK-293, K562, and 293T cell lysates; HeLa 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**.

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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR11997
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab173304 in the following tested applications.

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

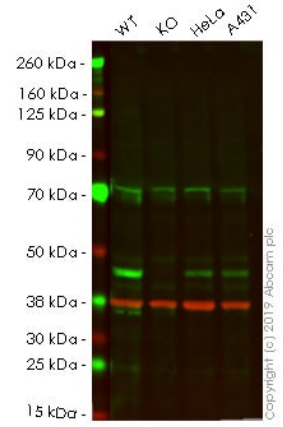
Application	Abreviews	Notes
WB		1/1000 - 1/5000. Predicted molecular weight: 41 kDa.
ICC/IF		1/50 - 1/100.

Application notes Is unsuitable for Flow Cyt,IHC-P or IP.

Target

Function	May play a role in transcriptional regulation.
Tissue specificity	Ubiquitously expressed.
Involvement in disease	Defects in PHF6 are the cause of Boerjeson-Forssman-Lehmann syndrome (BFLS) [MIM:301900]; also known as Boerjeson-Forssman syndrome (BORJ). BFLS is a X-linked recessive disorder characterized by moderate to severe mental retardation, epilepsy, hypogonadism, hypometabolism, obesity with marked gynecomastia, swelling of subcutaneous tissue of the face, narrow palpebral fissure and large but not deformed ears.
Sequence similarities	Contains 2 PHD-type zinc fingers.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus. Nucleus > nucleolus. Nuclear, it particularly localizes to the nucleolus.

Images



Western blot - Anti-PHD finger protein 6/PHF6 antibody [EPR11997] (ab173304)

All lanes : Anti-PHD finger protein 6/PHF6 antibody [EPR11997] (ab173304) at 1/1000 dilution

Lane 1 : Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate
Lane 2 : PHF6 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate
Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 4 : A-431 (Human epidermoid carcinoma cell line) whole cell lysate

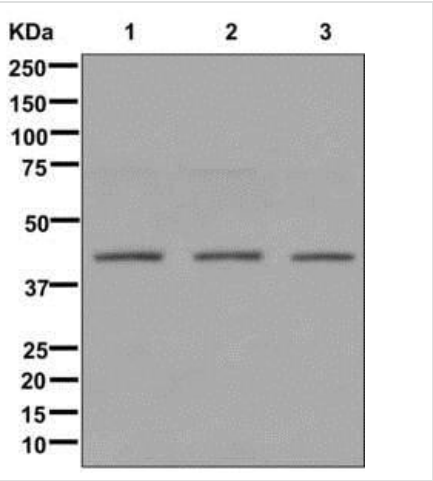
Lysates/proteins at 20 µg per lane.

Performed under non-reducing conditions.

Predicted band size: 41 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab173304 observed at 41 kDa. Red - loading control, **ab130007**, observed at 130 kDa.

ab173304 was shown to recognize PHD finger protein 6 in wild-type HEK-293 cells as signal was lost at the expected MW in PHF6 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and PHF6 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab173304 and **ab130007** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



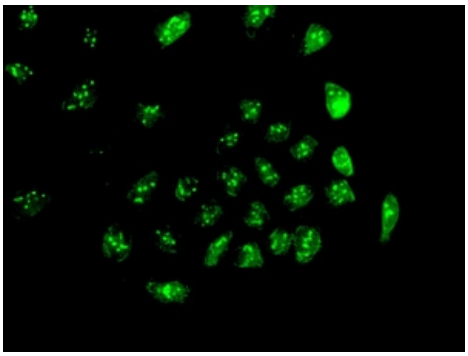
Western blot - Anti-PHD finger protein 6/PHF6 antibody [EPR11997] (ab173304)

All lanes : Anti-PHD finger protein 6/PHF6 antibody [EPR11997] (ab173304) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : K562 cell lysate
Lane 3 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 41 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PHD finger protein 6/PHF6 antibody [EPR11997] (ab173304)

Immunofluorescent analysis of HeLa cells labeling PHD finger protein 6/PHF6 with ab173304 at 1/50 dilution.

Anti-PHD finger protein 6/PHF6 antibody

[EPR11997] (ab173304)

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