abcam

Product datasheet

Anti-GRC5 / PHF2 antibody ab65771

1 Image

Overview

Product name	Anti-GRC5 / PHF2 antibody
Description	Rabbit polyclonal to GRC5 / PHF2
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide, corresponding to C terminal amino acids 830-1096 of Human GRC5/ PHF2
Positive control	Nuclear extracts of HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab65771 in the following tested applications.

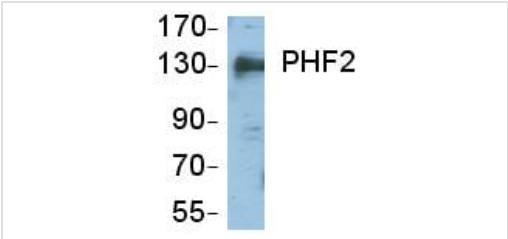
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 130 kDa (predicted molecular weight: 121 kDa).

Target

Function	Lysine demethylase that demethylates both histones and non-histone proteins. Enzymatically inactive by itself, and becomes active following phosphorylation by PKA: forms a complex with ARID5B and mediates demethylation of methylated ARID5B. Demethylation of ARID5B leads to target the PHF2-ARID5B complex to target promoters, where PHF2 mediates demethylation of dimethylated 'Lys-9' of histone H3 (H3K9me2), followed by transcription activation of target genes. The PHF2-ARID5B complex acts as a coactivator of HNF4A in liver. PHF2 is recruited to trimethylated 'Lys-4' of histone H3 (H3K4me3) at rDNA promoters and promotes expression of rDNA.
Tissue specificity	Widely expressed, including in liver (at protein level).
Sequence similarities	Belongs to the JHDM1 histone demethylase family. JHDM1D subfamily. Contains 1 JmjC domain. Contains 1 PHD-type zinc finger.
Domain	The PHD-type zinc finger mediates the binding to H3K4me2 and H3K4me3.
Post-translational modifications	Phosphorylated by PKA on specific serine residues, leading to the formation of an active lysine demethylase complex.
Cellular localization	Nucleus > nucleolus.

Images



Western blot - Anti-GRC5 / PHF2 antibody - Carboxyterminal end (ab65771)

Anti-GRC5 / PHF2 antibody (ab65771) at 1/1000 dilution + Nuclear extracts of HeLa cells.

Predicted band size: 121 kDa
Observed band size: 130 kDa

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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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