PHF12 (L-14): sc-107939



The Power to Question

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. PHF12 (PHD finger protein 12), also known as PF1 or KIAA1523, is a 1,004 amino acid protein that localizes to the nucleus and contains one FHA domain and 2 PHD-type zinc fingers. Existing as multiple alternatively spliced isoforms, PHF12 functions as a transcriptional repressor that is involved in recruiting mSin3A to DNA and may modify histone deactelytase (HDAC) complex activity. Multiple isoforms of PHF12 exist due to alternative splicing events. The gene encoding PHF12 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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- Yochum, G.S. and Ayer, D.E. 2001. Pf1, a novel PHD zinc finger protein that links the TLE corepressor to the mSin3A-histone deacetylase complex. Mol. Cell. Biol. 21: 4110-4118.
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CHROMOSOMAL LOCATION

Genetic locus: PHF12 (human) mapping to 17q11.2; Phf12 (mouse) mapping to 11 B5.

SOURCE

PHF12 (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PHF12 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107939 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

PHF12 (L-14) is recommended for detection of PHF12 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other PHF family members.

PHF12 (L-14) is also recommended for detection of PHF12 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for PHF12 siRNA (h): sc-93900, PHF12 siRNA (m): sc-152208, PHF12 shRNA Plasmid (h): sc-93900-SH, PHF12 shRNA Plasmid (m): sc-152208-SH, PHF12 shRNA (h) Lentiviral Particles: sc-93900-V and PHF12 shRNA (m) Lentiviral Particles: sc-152208-V.

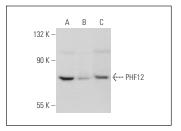
Molecular Weight of PHF12: 110 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HEK293 whole cell lysate: sc-45136 or ARPE-19 whole cell lysate: sc-364357.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PHF12 (L-14): sc-107939. Western blot analysis of PHF12 expression in Jurkat (**A**), HEK293 (**B**) and ARPE-19 (**C**) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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