

PHF10 (N-16): sc-107936

BACKGROUND

PHF10 (PHD finger protein 10), also known as XAP135, is a 410 amino acid protein belonging to the PHD finger protein family. Members of the PHD finger protein family function as transcriptional regulators that affect gene expression by modulating chromatin structure. Localizing to the nucleus, PHF10 contains two PHD-type zinc fingers, suggesting a possible role for PHF10 in transcription regulation. At least two PHF10 isoforms are expressed due to alternative splicing events. Isoform 2 is also known as Isoform B. In addition, a pseudogene for PHF10 exists on the X chromosome.

REFERENCES

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2. Aradhya, S., et al. 2002. Physical and genetic characterization reveals a pseudogene, an evolutionary junction, and unstable loci in distal Xq28. *Genomics* 79: 31-40.
3. Housley, D.J., et al. 2004. Comparative radiation hybrid map of canine chromosome 1 incorporating SNP and indel polymorphisms. *Genomics* 84: 248-264.
4. Payne, F., et al. 2005. No evidence for association of the TATA-box binding protein glutamine repeat sequence or the flanking chromosome 6q27 region with type 1 diabetes. *Biochem. Biophys. Res. Commun.* 331: 435-441.
5. Shidlovskii, Y.V., et al. 2005. Characteristics of a novel activator of RNA polymerase II transcription. *Dokl. Biochem. Biophys.* 402: 204-206.
6. Cavalieri, D., et al. 2007. Analysis of gene expression profiles reveals novel correlations with the clinical course of colorectal cancer. *Oncol. Res.* 16: 535-548.

CHROMOSOMAL LOCATION

Genetic locus: PHF10 (human) mapping to 6q27; Phf10 (mouse) mapping to 17 A2.

SOURCE

PHF10 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of PHF10 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-107936 P, (100 µg 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.

RESEARCH USE

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

APPLICATIONS

PHF10 (N-16) is recommended for detection of PHF10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

PHF10 (N-16) is also recommended for detection of PHF10 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for PHF10 siRNA (h): sc-95343, PHF10 siRNA (m): sc-152206, PHF10 shRNA Plasmid (h): sc-95343-SH, PHF10 shRNA Plasmid (m): sc-152206-SH, PHF10 shRNA (h) Lentiviral Particles: sc-95343-V and PHF10 shRNA (m) Lentiviral Particles: sc-152206-V.

Molecular Weight of PHF10: 47 kDa.

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) 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.

PROTOCOLS

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