

PHF19 (D-14): sc-243785

BACKGROUND

PHF19 (PHD finger protein 19), also known as PCL3 (polycomb-like 3), is a 580 amino acid protein that contains 2 PHD-type zinc fingers. PHF19 exists as three alternatively spliced isoforms and functions as a transcriptional repressor. Localizing to nucleus, PHF19 is ubiquitously expressed, with highest expression in placenta, skeletal muscle, kidney, liver and peripheral blood leukocytes. PHF19 is over-expressed in many types of cancers, including colon, skin, lung, rectal, cervical, uterus and liver cancers, as well as in cell lines derived from different stages of melanoma and in glioma cell lines. Increased PHF19 expression also correlates with advanced cancers, suggesting that PHF19 activation is not restricted to a single step during tumor progression. Encoded by a gene that maps to human chromosome 9q33.2, PHF19 is a candidate gene in a region associated with rheumatoid arthritis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PHF19 (human) mapping to 9q33.2; Phf19 (mouse) mapping to 2 B.

SOURCE

PHF19 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PHF19 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-243785 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PHF19 (D-14) is recommended for detection of PHF19 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.

PHF19 (D-14) is also recommended for detection of PHF19 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for PHF19 siRNA (h): sc-92523, PHF19 siRNA (m): sc-152211, PHF19 shRNA Plasmid (h): sc-92523-SH, PHF19 shRNA Plasmid (m): sc-152211-SH, PHF19 shRNA (h) Lentiviral Particles: sc-92523-V and PHF19 shRNA (m) Lentiviral Particles: sc-152211-V.

Molecular Weight of PHF19 isoforms 1/2/3: 66/23/14 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.

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.

PROTOCOLS

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