

Chfr (C-16): sc-13290

BACKGROUND

The forkhead-associated (FHA) domain was initially identified in transcription factors that have forkhead DNA-binding domains and in protein kinases, but many cell-cycle checkpoint proteins, including chfr (checkpoint with forkhead and ring finger domains) contain FHA domains. Chfr defines a checkpoint that delays entry into metaphase in response to mitotic stress. Normal primary cells and tumor cell lines that express wild-type chfr exhibit delayed entry into metaphase when centrosome separation is inhibited by mitotic stress. Additionally, chfr seems to be required for delaying prophase in human cells. The sequence of chfr is similar to that of the fission yeast DMA1, which is involved in a later mitotic checkpoint that delays a cell's exit from mitosis in response to spindle damage.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CHFR (human) mapping to 12q24.33; Chfr (mouse) mapping to 5 F.

SOURCE

Chfr (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Chfr 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-13290 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Chfr (C-16) is recommended for detection of Chfr 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).

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

Suitable for use as control antibody for Chfr siRNA (h): sc-37567, Chfr siRNA (m): sc-142325, Chfr shRNA Plasmid (h): sc-37567-SH, Chfr shRNA Plasmid (m): sc-142325-SH, Chfr shRNA (h) Lentiviral Particles: sc-37567-V and Chfr shRNA (m) Lentiviral Particles: sc-142325-V.

Molecular Weight of Chfr isoforms: 73/72/69/64 kDa.

Positive Controls: ES-2 cell lysate: sc-24674.

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.



Try **Chfr (L2): sc-81832**, our highly recommended monoclonal alternative to Chfr (C-16).