



FO XK2 (T-12): sc-103504

BACKGROUND

The forkhead-box (FOX) genes comprise a superfamily of at least 43 members that encode proteins which are involved in transcriptional regulation and may be associated with the pathogenesis of various cancers. FOXK2 (forkhead box K2), also known as ILF or ILF1, is a 660 amino acid protein that localizes to the nucleus and contains one FHA domain and one forkhead DNA-binding domain. Expressed in lymphoid and non-lymphoid cells, FOXK2 uses magnesium as a cofactor and binds to purine-rich motifs in select promoters, possibly playing a role in the regulation of viral and cellular promoter elements. FOXK2 exists as multiple alternatively spliced isoforms and is subject to DNA damage-dependent phosphorylation, probably by ATM or ATR.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: FOXK2 (human) mapping to 17q25.3; Foxk2 (mouse) mapping to 11 E2.

SOURCE

FOXK2 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FOXK2 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-103504 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FOXK2 (T-12) is recommended for detection of FOXK2 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 FOX family members .

Suitable for use as control antibody for FOXK2 siRNA (h): sc-94054, FOXK2 siRNA (m): sc-105371, FOXK2 shRNA Plasmid (h): sc-94054-SH, FOXK2 shRNA Plasmid (m): sc-105371-SH, FOXK2 shRNA (h) Lentiviral Particles: sc-94054-V and FOXK2 shRNA (m) Lentiviral Particles: sc-105371-V.

Molecular Weight of FOXK2: 69 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.