

FKHL18 (F-12): sc-99889



The Power to Question

BACKGROUND

The Fox family of transcription factors is a large group of proteins that share a common DNA-binding domain, termed a winged-helix or forkhead domain, and are classified into 20 subclasses. Many Fox proteins play important roles in development, metabolism, cancer and aging. FKHL18, also designated Forkhead box protein S1 (FoxS1) or Forkhead-related transcription factor 10 (FREAC-10), is a structurally unique member of the Fox family. FKHL18 is expressed in aorta, sensory neurons and fetal testis, suggesting diverse functions of the FKHL18 protein. Specifically, FKHL18 is thought to play a role in the integration and processing of neuronal signaling necessary for energy turnover and motor function. It has also been established as an early sensory neuronal marker.

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CHROMOSOMAL LOCATION

Genetic locus: FOXS1 (human) mapping to 20q11.21; Foxs1 (mouse) mapping to 2 H1.

SOURCE

FKHL18 (F-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of FKHL18 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-99889 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-99889 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FKHL18 (F-12) is recommended for detection of FKHL18 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).

FKHL18 (F-12) is also recommended for detection of FKHL18 in additional species, including canine and bovine.

Suitable for use as control antibody for FKHL18 siRNA (h): sc-75023, FKHL18 siRNA (m): sc-145195, FKHL18 shRNA Plasmid (h): sc-75023-SH, FKHL18 shRNA Plasmid (m): sc-145195-SH, FKHL18 shRNA (h) Lentiviral Particles: sc-75023-V and FKHL18 shRNA (m) Lentiviral Particles: sc-145195-V.

FKHL18 (F-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of FKHL18: 35 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 **FKHL18 (G-7): sc-398599**, our highly recommended monoclonal alternative to FKHL18 (F-12).