SANTA CRUZ BIOTECHNOLOGY, INC.

FOXQ1 (K-12): sc-47597

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The FOX family of transcription factors share a common DIUA binding domain termed a winged-helix or forkhead domain. Many FOX proteins play important roles in development, metabolism, cancer and aging. FOXQ1 is mutant in satin homozygous mice. Satin mice are characterized by having silky coats with high sheen as a result of structurally abnormal medulla cells and defects in the differentiation of the hair shaft. Satin mice also display suppressed natural killer cell function and alloimmune cytotoxic T cell function, which implicates FOXQ1 in lymphocyte development. FOXQ1 is predominantly expressed during embryogenesis and in a tissue-restricted expression pattern in adult tissues, including stomach, trachea, bladder and salivary gland. FOXQ1 is overexpressed in colorectal adenocarcinoma and lung carcinoma cell lines.

CHROMOSOMAL LOCATION

Genetic locus: FOXQ1 (human) mapping to 6p25.3; Foxq1 (mouse) mapping to 13 A3.2.

SOURCE

FOXQ1 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FOXQ1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-47597 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-47597 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.

APPLICATIONS

FOXQ1 (K-12) is recommended for detection of FOXQ1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for FOXQ1 siRNA (h): sc-60660, FOXQ1 siRNA (m): sc-60661, FOXQ1 shRNA Plasmid (h): sc-60660-SH, FOXQ1 shRNA Plasmid (m): sc-60661-SH, FOXQ1 shRNA (h) Lentiviral Particles: sc-60660-V and FOXQ1 shRNA (m) Lentiviral Particles: sc-60661-V.

FOXQ1 (K-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

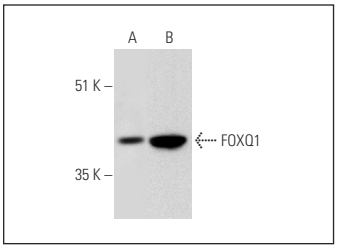
Molecular Weight of FOXQ1: 41 kDa.

Positive Controls: FOXQ1 (m): 293T Lysate: sc-120313, WI-38 whole cell lysate: sc-364260 or A549 cell lysate: sc-2413.

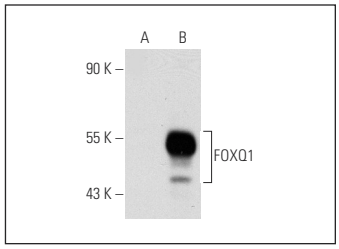
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



FOXQ1 (K-12): sc-47597. Western blot analysis of FOXQ1 expression in WI-38 (**A**) and A549 (**B**) whole cell lysates.



FOXQ1 (K-12): sc-47597. Western blot analysis of FOXQ1 expression in non-transfected: sc-117752 (**A**) and mouse FOXQ1 transfected: sc-120313 (**B**) 293T whole cell lysates.

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.

MONOS Satisfaction Guaranteed

Try **FOXQ1 (C-9): sc-166265** or **FOXQ1 (B-4): sc-166266**, our highly recommended monoclonal alternatives to FOXQ1 (K-12).