

FOXQ1 (H-40): sc-134549

BACKGROUND

The FOX family of transcription factors share a common DNA 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.

REFERENCES

- Hoggatt, A.M., et al. 2000. Hepatocyte nuclear factor-3 homologue 1 (HFH-1) represses transcription of smooth muscle-specific genes. *J. Biol. Chem.* 275: 31162-31170.
- Bieller, A., et al. 2001. Isolation and characterization of the human forkhead gene FOXQ1. *DNA Cell Biol.* 20: 555-561.

CHROMOSOMAL LOCATION

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

SOURCE

FOXQ1 (H-40) is a rabbit polyclonal antibody raised against amino acids 175-214 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-134549 X, 200 µg/0.1 ml.

APPLICATIONS

FOXQ1 (H-40) 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 (H-40) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

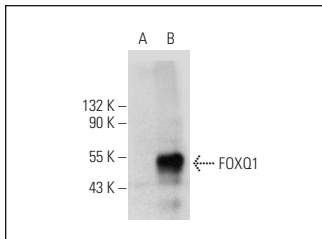
Molecular Weight of FOXQ1: 41 kDa.

Positive Controls: FOXQ1 (h): 293T Lysate: sc-116439, MCF7 whole cell lysate: sc-2206 or HCT-116 whole cell lysate: sc-364175.

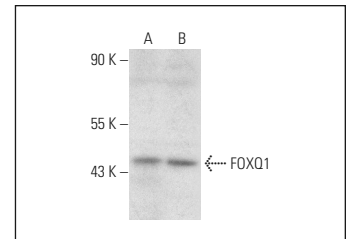
RECOMMENDED SECONDARY REAGENTS

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

DATA



FOXQ1 (H-40): sc-134549. Western blot analysis of FOXQ1 expression in non-transfected: sc-117752 (A) and human FOXQ1 transfected: sc-116439 (B) 293T whole cell lysates.



FOXQ1 (H-40): sc-134549. Western blot analysis of FOXQ1 expression in MCF7 (A) and HCT-116 (B) whole cell lysates.

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.

MONOS
Satisfaction
Guaranteed

Try **FOXQ1 (C-9): sc-166265** or **FOXQ1 (B-4): sc-166266**, our highly recommended monoclonal alternatives to FOXQ1 (H-40).