SANTA CRUZ BIOTECHNOLOGY, INC.

FOXJ1 (C-16): sc-54371

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Forkhead-box J1 (FOXJ1) is a 421 amino acid transcription factor that suppresses T cell activity, and thus spontaneous autoimmunity, through the repression of NFκB activity. FOXJ1 also inhibits the humoral immune response in B cells. FOXJ1 deficiency in B cells results in spontaneous and accentuated germinal center formation, implicated in the development of pathogenic autoantibodies and accentuated responses to immunizations. Abnormal expression of FOXJ1 may be associated with autoimmune diseases and/or other inflammatory diseases. FOXJ1 is also required for cilia formation and left-right axis determination because it increases calpastatin expression, a protein necessary for the ability of basal bodies to anchor to the apical cytoskeleton. FOXJ1 expression may function as an early marker of epithelial cell differentiation, recovery and function.

CHROMOSOMAL LOCATION

Genetic locus: FOXJ1 (human) mapping to 17q25.1; Foxj1 (mouse) mapping to 11 E2.

SOURCE

FOXJ1 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FOXJ1 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-54371 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

FOXJ1 (C-16) is recommended for detection of FOXJ1 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).

FOXJ1 (C-16) is also recommended for detection of FOXJ1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FOXJ1 siRNA (h): sc-62335, FOXJ1 siRNA (m): sc-62336, FOXJ1 shRNA Plasmid (h): sc-62335-SH, FOXJ1 shRNA Plasmid (m): sc-62336-SH, FOXJ1 shRNA (h) Lentiviral Particles: sc-62335-V and FOXJ1 shRNA (m) Lentiviral Particles: sc-62336-V.

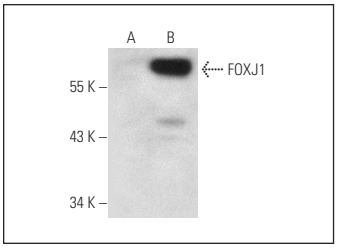
Molecular Weight of FOXJ1: 58 kDa.

Positive Controls: FOXJ1 (h): 293T Lysate: sc-115631, mouse lung extract: sc-2390 or rat lung extract: sc-2396.

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



FOXJ1 (C-16): sc-54371. Western blot analysis of FOXJ1 expression in non-transfected: sc-117752 (**A**) and human FOXJ1 transfected: sc-115631 (**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 **FOXJ1 (3-19): sc-53139** or **FOXJ1 (B-8): sc-365216**, our highly recommended monoclonal alternatives to FOXJ1 (C-16). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **FOXJ1 (3-19): sc-53139**.