

FOXJ3 (Q-18): sc-54379

BACKGROUND

FOXJ3 (forkhead box protein J3) is a 622 amino acid protein encoded by the human gene FOXJ3. FOXJ3, having one forkhead DNA-binding domain, is a novel forkhead factor and, as such, belongs to the forkhead protein family. The HNF3/forkhead family includes a large number of transcription factors that share a structurally related DNA binding domain. Forkhead factors are known to play important roles both during development and in adults. FOXJ3 is expressed in neuroectoderm, in neural crest, and in many structures derived from neural crest cells, such as facioacoustic, trigeminal and dorsal root ganglia. Stripes of FOXJ3 expression appear in the location of myotomes and expand ventrally in a pattern similar to the developing body wall musculature. Developing limbs have a complex pattern of FOXJ3 expression that at E12.5 colocalizes with the condensed mesenchyme of the skeletal primordia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FOXJ3 (human) mapping to 1p34.2; Foxj3 (mouse) mapping to 4 D2.1.

SOURCE

FOXJ3 (Q-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FOXJ3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54379 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FOXJ3 (Q-18) is recommended for detection of FOXJ3 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).

FOXJ3 (Q-18) is also recommended for detection of FOXJ3 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for FOXJ3 siRNA (h): sc-62339, FOXJ3 siRNA (m): sc-62340, FOXJ3 shRNA Plasmid (h): sc-62339-SH, FOXJ3 shRNA Plasmid (m): sc-62340-SH, FOXJ3 shRNA (h) Lentiviral Particles: sc-62339-V and FOXJ3 shRNA (m) Lentiviral Particles: sc-62340-V.

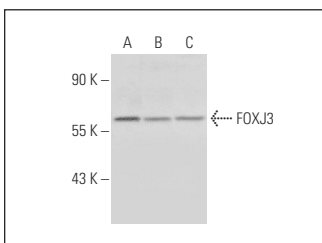
Molecular Weight of FOXJ3 isoforms: 69/65 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

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.

DATA



FOXJ3 (Q-18): sc-54379. Western blot analysis of FOXJ3 expression in Jurkat (A), K-562 (B) and HeLa (C) 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.