

FOXD3 (F-23): sc-133588

BACKGROUND

Embryonic stem cells require the forkhead transcriptional regulator FOXD3 for survival. Following gastrulation, FOXD3 generally gets downregulated, except in the neural crest. A variety of growth factors induce FOXD3 expression, including FGF8 and SNAIL, maintaining the effected cells in an undifferentiated state. Thus defects in FOXD3 induction may cause premature differentiation and/or migration-associated birth defects.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FOXD3 (human) mapping to 1p31.3; Foxd3 (mouse) mapping to 4 C6.

SOURCE

FOXD3 (F-23) is an affinity purified rabbit polyclonal antibody raised against synthetic FOXD3 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

FOXD3 (F-23) is recommended for detection of FOXD3 of mouse 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FOXD3 siRNA (h): sc-43768, FOXD3 siRNA (m): sc-145222, FOXD3 shRNA Plasmid (h): sc-43768-SH, FOXD3 shRNA Plasmid (m): sc-145222-SH, FOXD3 shRNA (h) Lentiviral Particles: sc-43768-V and FOXD3 shRNA (m) Lentiviral Particles: sc-145222-V.

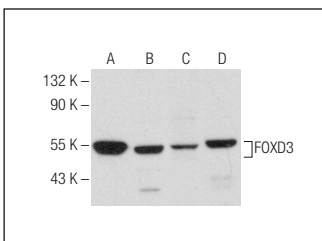
Molecular Weight of Hep G2: 48 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, F9 cell lysate: sc-2245 or Jurkat whole cell lysate: sc-2204.

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).

DATA



FOXD3 (F-23): sc-133588. Western blot analysis of FOXD3 expression in Hep G2 nuclear extract (A) and F9 (B), HL-60 (C) and Jurkat (D) 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.

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Try **FOXD3 (5G9B10): sc-517206**, our highly recommended monoclonal alternative to FOXD3 (F-23).