

FOXD1 (F-21): sc-133586

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. FOXD1 (also designated Brain Factor 2 or BF-2) is involved in regulating inflammation as well as kidney and retinal development. FOXD1 regulates the activity of NF-AT and NF- κ B. Deficiency of FOXD1 results in multiorgan, systemic inflammation, exaggerated T cell-derived cytokine production and T cell proliferation in autologous MLRs. In kidneys, FOXD1 controls the production of signals required for the normal transition of induced mesenchyme into tubular epithelium and full growth and branching of the collecting system. Deletion of FOXD1 results in renal abnormalities. FOXD2 acts as a modulator of T cell activation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Foxd1 (mouse) mapping to 13 D1.

SOURCE

FOXD1 (F-21) is a Protein A purified rabbit polyclonal antibody raised against a synthetic peptide mapping within amino acids 100-165 of FOXD1 of mouse origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

FOXD1 (F-21) is recommended for detection of FOXD1 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 FOXD1 siRNA (m): sc-60650, FOXD1 shRNA Plasmid (m): sc-60650-SH and FOXD1 shRNA (m) Lentiviral Particles: sc-60650-V.

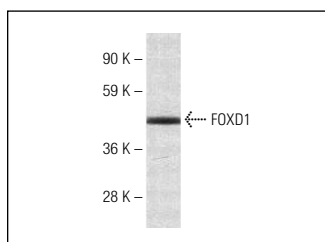
Molecular Weight of FOXD1: 46 kDa.

Positive Controls: SP2/0 whole cell lysate: sc-364795.

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



FOXD1 (F-21): sc-133586. Western blot analysis of FOXD1 expression in SP2/0 whole cell lysate.

SELECT PRODUCT CITATIONS

- Panneerdoss, S., et al. 2012. Androgen-responsive microRNAs in mouse Sertoli cells. *PLoS ONE* 7: e41146.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.