

FOX11 (G-21): sc-133591

BACKGROUND

FOX11 (forkhead box 11), also known as HFH3 (HNF-3/forkhead homolog 3), FKHL10 or FREAC6 (forkhead related transcription factor 6), is a member of the FOX family of transcription factors. The FOX family is a large group of proteins (consisting of at least 43 members) that share a common DNA binding domain termed winged-helix or forkhead domain. FOX transcription factors play important roles in development, differentiation, aging and hormone responsiveness. Localizing to the nucleus, FOX11 functions as a transcription factor. Mice with mutated forms of FOX11 show defects in ear development, implying that FOX11 plays a significant role in the developmental pathway of ears and, in particular, the cochlea and vestibulum. FOX11 is an upstream transcription regulator of Pendrin (a protein associated with deafness), suggesting a role for FOX11 in the pathogenesis of Pendred syndrome (PS), a condition of nonsyndromic hearing loss and enlarged vestibular aqueduct (EVA).

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: FOX11 (human) mapping to 5q35.1.

SOURCE

FOX11 (G-21) is an affinity purified rabbit polyclonal antibody raised against synthetic FOX11 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.

APPLICATIONS

FOX11 (G-21) is recommended for detection of FOX11 of 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).

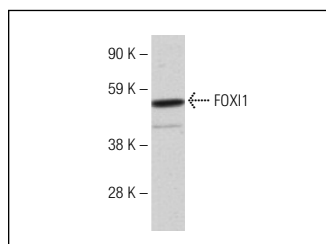
Suitable for use as control antibody for FOX11 siRNA (h): sc-75052, FOX11 shRNA Plasmid (h): sc-75052-SH and FOX11 shRNA (h) Lentiviral Particles: sc-75052-V.

Molecular Weight of FOX11: 41 kDa.

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



FOX11 (G-21): sc-133591. Western blot analysis of FOX11 expression in human fetal kidney tissue extract.

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.