

# FOX11 (P-15): sc-69405

## BACKGROUND

FOX11 (forkhead box I1), 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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## CHROMOSOMAL LOCATION

Genetic locus: FOX11 (human) mapping to 5q35.1; Foxi1 (mouse) mapping to 11 A4.

## SOURCE

FOX11 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FOX11 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-69405 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-69405 X, 200 µg/0.1 ml.

## APPLICATIONS

FOX11 (P-15) is recommended for detection of FOX11 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).

FOX11 (P-15) is also recommended for detection of FOX11 in additional species, including canine.

Suitable for use as control antibody for FOX11 siRNA (h): sc-75052, FOX11 siRNA (m): sc-75053, FOX11 shRNA Plasmid (h): sc-75052-SH, FOX11 shRNA Plasmid (m): sc-75053-SH, FOX11 shRNA (h) Lentiviral Particles: sc-75052-V and FOX11 shRNA (m) Lentiviral Particles: sc-75053-V.

FOX11 (P-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of FOX11: 41 kDa.

## 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.