

# FOXI3 (L-17): sc-324865

## BACKGROUND

The forkhead-box (FOX) genes comprise a superfamily of at least 43 members that encode proteins which are involved in transcriptional regulation and may be associated with the pathogenesis of various cancers. FOXI3 (forkhead box I3) is a member of the FOX family which contains one forkhead DNA-binding domain. FOXI3 localizes to the nucleus where it is thought to function as a transcription factor that can bind to DNA via the forkhead domain. The gene that encodes FOXI3 maps to human chromosome 2, the second largest human chromosome consisting of 237 million bases encoding over 1,400 genes. A number of genetic diseases are linked to genes on chromosome 2. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome, is due to mutations in the ALMS1 gene.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Foxi3 (mouse) mapping to 6 C1.

## SOURCE

FOXI3 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FOXI3 of mouse 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-324865 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-324865 X, 200 µg/0.1 ml.

## APPLICATIONS

FOXI3 (L-17) is recommended for detection of FOXI3 of mouse and rat 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)], 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); non cross-reactive with FOXI1 or Foxi2.

Suitable for use as control antibody for FOXI3 siRNA (m): sc-148637, FOXI3 shRNA Plasmid (m): sc-148637-SH and FOXI3 shRNA (m) Lentiviral Particles: sc-148637-V.

FOXI3 (L-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

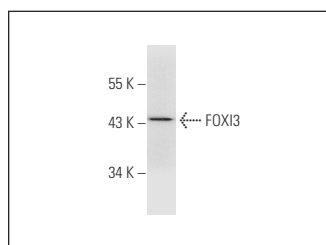
Molecular Weight of FOXI3: 43 kDa.

Positive Controls: mouse skin extract: sc-364251.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



FOXI3 (L-17): sc-324865. Western blot analysis of FOXI3 expression in mouse skin tissue extract.

## 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.