

# FOXE2 (Q-15): sc-54271

## BACKGROUND

FOXE2 (forkhead box protein E2), also known as HNF-3/forkhead-like protein 5 (HFKL5) or HFKH4, 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. FOXE2 contains one forkhead DNA-binding domain. It is a 500 amino acid long protein and the gene encoding FOXE2 maps to chromosome 9q22. FOXE2 is expressed in differentiated neurons, the parasympathetic ganglia of the small intestine, kidney tubule cells, lymphocytes and some hepatocytes. FOXE2 may act as a transcription factor.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: FOXE1 (human) mapping to 9q22.

## RESEARCH USE

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

## SOURCE

FOXE2 (Q-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FOXE2 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-54271 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-54271 X, 200 µg/0.1 ml.

## APPLICATIONS

FOXE2 (Q-15) is recommended for detection of FOXE2 of 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).

Suitable for use as control antibody for FOXE2 siRNA (h): sc-72364, FOXE2 shRNA Plasmid (h): sc-72364-SH and FOXE2 shRNA (h) Lentiviral Particles: sc-72364-V.

FOXE2 (Q-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of FOXE2: 38 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.