

FOXJ2 (S-17): sc-54376

BACKGROUND

FOXJ2, forkhead box protein J2, is a 574 amino acid protein encoded by the human gene FOXJ2. FOXJ2 is a novel forkhead factor, belonging to the forkhead family, with a dual DNA binding specificity. The HNF-3/forkhead family includes a large number of transcription factors that share a structurally related DNA binding domain. Forkhead factors are known to play important roles both during development and in adults. In the testis, FOXJ2 is expressed from pachytene spermatocytes to round spermatids, but not in spermatogonia. In addition to the germ lineage, only Sertoli cells of the testis showed expression of FOXJ2. In the ovary, only granulosa cells of the follicles express the factor. Neither mature spermatozoa nor oocytes have been found to express FOXJ2. However, both the trophectoderm (TE) and the inner cell mass (ICM) cell layers of the blastocyst express FOXJ2.

REFERENCES

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2. Perez-Sánchez, C., et al. 2000. FHX.L and FHX.S, two isoforms of the human forkhead factor FHX (FOXJ2) with differential activity. *J. Mol. Biol.* 301: 795-806.
3. Gómez-Ferrería, M.A. and Rey-Campos, J. 2003. Functional domains of FOXJ2. *J. Mol. Biol.* 329: 631-644.
4. Katoh, M. and Katoh, M. 2004. Human FOX gene family (Review). *Int. J. Oncol.* 25: 1495-1500.
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6. Wijchers, P.J., et al. 2006. Identification of forkhead transcription factors in cortical and dopaminergic areas of the adult murine brain. *Brain Res.* 1068: 23-33.
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CHROMOSOMAL LOCATION

Genetic locus: FOXJ2 (human) mapping to 12p13.31; Foxj2 (mouse) mapping to 6 F2.

SOURCE

FOXJ2 (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FOXJ2 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-54376 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FOXJ2 (S-17) is recommended for detection of FOXJ2 of mouse, rat and 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)], 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).

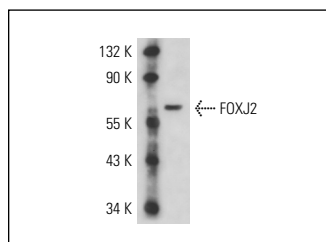
FOXJ2 (S-17) is also recommended for detection of FOXJ2 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for FOXJ2 siRNA (h): sc-62337, FOXJ2 siRNA (m): sc-62338, FOXJ2 shRNA Plasmid (h): sc-62337-SH, FOXJ2 shRNA Plasmid (m): sc-62338-SH, FOXJ2 shRNA (h) Lentiviral Particles: sc-62337-V and FOXJ2 shRNA (m) Lentiviral Particles: sc-62338-V.

Molecular Weight of FOXJ2: 63 kDa.

Positive Controls: rat uterus extract: sc-364812 or Jurkat nuclear extract: sc-2132.

DATA



FOXJ2 (S-17): sc-54376. Western blot analysis of FOXJ2 expression in rat uterus tissue extract.

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.

MONOS
Satisfaction
Guaranteed

Try **FOXJ2 (G-9): sc-514265** or **FOXJ2 (11K1): sc-134341**, our highly recommended monoclonal alternatives to FOXJ2 (S-17).