

FOXO6 (G-24): sc-133594

BACKGROUND

The forkhead box (FOX) family of transcription factors represent a group of proteins that share a common FOX DNA-binding domain and play important roles in cell- and tissue-specific protein expression during development. FOXO6 (forkhead box O6) is a 559 amino acid mouse protein that localizes to both the nucleus and the cytoplasm and contains one forkhead DNA-binding domain. Expressed in developing brain tissue, including areas of the nucleus accumbens, cingulate cortex, parts of the amygdala and in the hippocampus, FOXO6 functions as a transcriptional activator that mediates the transcription of target genes during murine development.

REFERENCES

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- Huang, H. and Tindall, D.J. 2007. Dynamic FOXO transcription factors. *J. Cell Sci.* 120: 2479-2487.
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CHROMOSOMAL LOCATION

Genetic locus: Foxo6 (mouse) mapping to 4 D2.2.

SOURCE

FOXO6 (G-24) is a protein A purified rabbit polyclonal antibody raised against synthetic FOXO6 peptide of mouse origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

FOXO6 (G-24) is recommended for detection of FOXO6 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FOXO6 siRNA (m): sc-145227, FOXO6 shRNA Plasmid (m): sc-145227-SH and FOXO6 shRNA (m) Lentiviral Particles: sc-145227-V.

Molecular Weight (predicted) of FOXO6: 58 kDa.

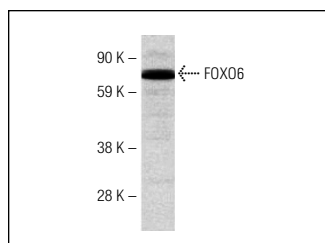
Molecular Weight (observed) of FOXO6: 72 kDa.

Positive Controls: SP2/0 whole cell lysate.

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



FOXO6 (G-24): sc-133594. Western blot analysis of FOXO6 expression in SP2/0 whole cell lysate.

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.