**BACKGROUND**

FOX L2 is a 376 amino acid protein encoded by the human gene FOXL2. FOXL2 is found in the nucleus and is believed to be a transcriptional regulator. Defects in FOXL2 are a cause of blepharophimosis, ptosis and epicanthus inversus syndrome (BPES), also known as blepharophimosis syndrome. BPES is an autosomal dominant disorder characterized by eyelid abnormalities, small palpebral fissures, drooping eyelids and a skin fold running inward and upward from the lower lid. In type I BPES (BPES1) eyelid abnormalities are associated with female infertility. Affected females show an ovarian defect due to primary amenorrhea or to premature ovarian failure (POF). In type II BPES (BPES2) affected individuals show only the eyelid defects. There is a mutational hotspot in the region coding for the poly-Ala domain, since 30% of all mutations in the ORF lead to poly-Ala expansions, resulting mainly in BPES type II. POF is a defect of ovarian development and is characterized by hypoestrogenism, primary or secondary amenorrhea, elevated levels of serum gonadotropins or early menopause. POF is defined as the cessation of ovarian function under the age of 40 years.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FOXL2 (human) mapping to 3q22.3; Foxl2 (mouse) mapping to 9 E3.3.

**SOURCE**

FOX L2 (H-43) is a rabbit polyclonal antibody raised against amino acids 334-376 mapping at the C-terminus of FOXL2 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.

**STORAGE**

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

**APPLICATIONS**

FOX L2 (H-43) is recommended for detection of FOXL2 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).

Suitable for use as control antibody for FOXL2 siRNA (h): sc-106837, FOXL2 siRNA (m): sc-77399, FOXL2 shRNA Plasmid (h): sc-106837-SH, FOXL2 shRNA Plasmid (m): sc-77399-SH, FOXL2 shRNA (h) Lentiviral Particles: sc-106837-V and FOXL2 shRNA (m) Lentiviral Particles: sc-77399-V.

Molecular Weight of FOXL2: 38 kDa.

**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 1:1-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2233 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range 1:1-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range 1:1-1:400) or goat anti-rabbit IgG: sc-2780 (dilution range 1:1-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

![Western blot analysis of FOXL2 expression](image)

**SELECT PRODUCT CITATIONS**


**MONOS Satisfaction Guaranteed**

Try FOXL2 (262C1a): sc-81275, our highly recommended monoclonal alternative to FOXL2 (H-43).