**FOXF2 (L-29): sc-101043**

**BACKGROUND**

The FOX family of transcription factors share a common DIUA binding domain termed a winged-helix or forkhead domain. Many FOX proteins play important roles in development, metabolism, cancer and aging. Development of the vertebrate gut is controlled by paracrine crosstalk between the endodermal epithelium and the associated splanchnic mesoderm. FOXF2 (forkhead box F2), also known as FKHL or FREAC2, is expressed in lung and placenta, and has been shown to transcriptionally activate several lung-specific genes. FOXF2 interacts with transcription factors TFII and TBP, and may be involved in regulating transcription in embryogenesis and pattern formation in multicellular organisms. FOXF2-deficient mice develop cleft palate and an abnormal tongue, which suggests that FOXF2 may be critical for palatogenesis.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FOXF2 (human) mapping to 6p25.3; Foxf2 (mouse) mapping to 13 A3.2.

**SOURCE**

FOXF2 (L-29) is a mouse monoclonal antibody raised against recombinant FOXF2 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG2a kappa light chain 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**

FOXF2 (L-29) is recommended for detection of FOXF2 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 FOXF2 siRNA (h): sc-105370, FOXF2 siRNA (m): sc-145225, FOXF2 shRNA Plasmid (h): sc-105370-SH, FOXF2 shRNA Plasmid (m): sc-145225-SH, FOXF2 shRNA (h) Lentiviral Particles: sc-105370-V and FOXF2 shRNA (m) Lentiviral Particles: sc-145225-V.

Molecular Weight (predicted) of FOXF2: 46 kDa.

Molecular Weight (observed) of FOXF2: 40 kDa.

Positive Controls: THP-1 nuclear extract: sc-24963, HeLa nuclear extract: sc-2120 or Hep G2 nuclear extract: sc-364819.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGk BP-HRP or m-IgGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516141-CM (dilution range: 1:50-1:1000), BP-HRP: sc-516102 or m-IgGk BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting LuminoL reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml), sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-358850.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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