FOXJ1 (B-8): sc-365216

**BACKGROUND**

Forkhead-box J1 (FOXJ1) is a 421 amino acid transcription factor that suppresses T cell activity and thus spontaneous autoimmunity, through the repression of NFκB activity. FOXJ1 also inhibits the humoral immune response in B cells; FOXJ1 deficiency in B cells results in spontaneous and accentuated germinal center formation, implicated in the development of pathogenic autoantibodies and accentuated responses to immunizations. Abnormal expression of FOXJ1 may be associated with autoimmune diseases and/or other inflammatory diseases. FOXJ1 is also required for cilia formation and left-right axis determination because it increases calpastatin expression, a protein necessary for the ability of basal bodies to anchor to the apical cytoskeleton. FOXJ1 expression may function as an early marker of epithelial cell differentiation, recovery, and function.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FOXJ1 (human) mapping to 17q25.1.

**SOURCE**

FOXJ1 (B-8) is a mouse monoclonal antibody raised against amino acids 221-421 mapping at the C-terminus of FOXJ1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 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**

FOXJ1 (B-8) is recommended for detection of FOXJ1 of 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 FOXJ1 siRNA (h): sc-62335, FOXJ1 shRNA Plasmid (h): sc-62335-SH and FOXJ1 shRNA (h) Lentiviral Particles: sc-62335-V.

Molecular Weight of FOXJ1: 58 kDa.

Positive Controls: FOXJ1 (h): 293T Lysate: sc-115631 or H69AR whole cell lysate: sc-364382.

**RECOMMENDED SUPPORT REAGENTS**

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

**DATA**

![Western Blot analysis of FOXJ1 expression in non-transfected: sc-117752 (A) and human FOXJ1 transfected: sc-115631 (B) 293T whole cell lysates.](image)

![Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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