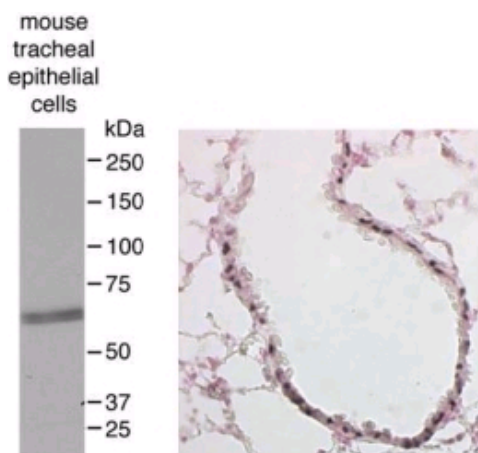


Anti-Human/Mouse FOXJ1 Purified

Catalog Number: 14-9965

Also Known As: HFH-4, HFH4, Fox J1

RUO: For Research Use Only



(Left) Immunoblotting of mouse tracheal epithelial cells at a 1:500 dilution of Anti-Human/Mouse FOXJ1 Purified. Bands were visualized using Anti-Mouse IgG HRP. (Right) Immunohistochemistry of paraffin-embedded mouse lung tissue with Anti-Human/Mouse FOXJ1 Purified followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Avidin HRP (cat. 18-4100). Data provided courtesy of Steven L. Brody.

Product Information

Contents: Anti-Human/Mouse FOXJ1 Purified


 Catalog Number: 14-9965

Clone: 2A5

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

This 2A5 monoclonal antibody reacts with Foxj1, a 50-kDa member of the Forkhead-box (FOX) family of winged-helix transcription factors. Expression of Foxj1 is high in ciliated epithelial cells and low in naïve T and B cells, where cellular activation results in downregulation of the factor. Foxj1 modulates germinal center formation and Th1 activation by repressing NFκB through IκBβ induction. As such, this transcription factor has been suggested to antagonize autoimmune reactions such as systemic lupus erythematosus and rheumatoid arthritis. In addition, Foxj1 has been linked to the formation of motile cilia in epithelial cells.

Applications Reported

This 2A5 antibody has been reported for use in immunoblotting (WB) and immunohistology staining of paraffin-embedded tissue sections.

Applications Tested

This 2A5 antibody has been tested by western blot on mouse tracheal epithelial cells and testes, as well as by immunohistochemistry on mouse lung. This antibody can be used between 1-10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Yu X, Ng CP, Habacher H, Roy S. Foxj1 transcription factors are master regulators of the motile ciliogenic program. *Nat Genet.* 2008 Dec;40(12):1445-53.

Pan J, You Y, Huang T, Brody SL. RhoA-mediated apical actin enrichment is required for ciliogenesis and promoted by Foxj1. *J. Cell Sci.* 2007 Jun 1;120(Pt 11):1868-76. (2A5, WB, IF, Pubmed)

Lin L, Brody SL, Peng SL. Restraint of B cell activation by FOXJ1-mediated antagonism of NFκB and IL-6. *J. Immunol.* 2005, 175: 951-958.

Lin L, Spoor MS, Gerth AJ, Brody SL, Peng SL. Modulation of Th1 activation and inflammation by the NFκB repressor FOXJ1. *Science* 2004, 303: 1017.

Related Products

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

18-4100 Avidin HRP

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