

# FOXJ1 Monoclonal Antibody (2A5), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Pig, Rat, Fruit fly, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	2A5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_1548835

Applications	Tested Dilution	Publications
Western Blot (WB)	1-10 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	38 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-10 µg/mL	3 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	Assay-Dependent	22 Publications
Flow Cytometry (Flow)	-	2 Publications
ChIP assay (ChIP)	-	1 Publication

## Product Specific Information

**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 naive T and B cells, where cellular activation results in downregulation of the factor. Foxj1 modulates germinal center formation and Th1 activation by repressing NFkappaB through IkappaBbeta 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 western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, and immunocytochemistry.

**Applications Tested:** This 2A5 antibody has been tested by western blot of mouse tracheal epithelial cells and testes, as well as by

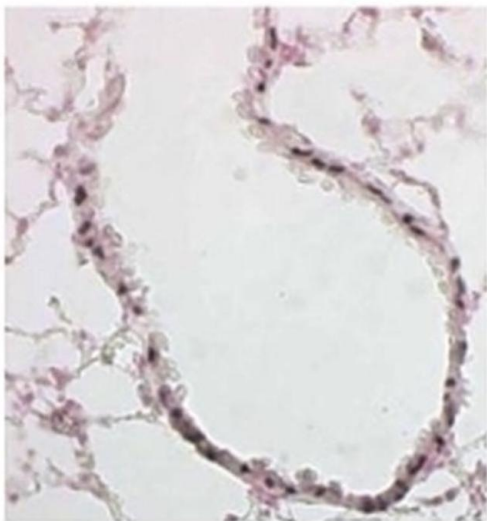
immunohistochemistry of mouse lung tissue. This antibody can be used between 1-10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

### Product Images For FOXJ1 Monoclonal Antibody (2A5), eBioscience™



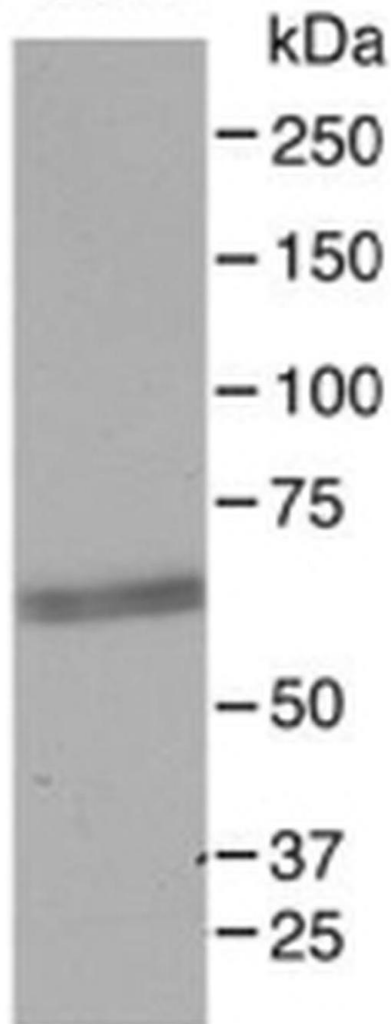
#### FOXJ1 Antibody (14-9965-82) in IHC (P)

Immunohistochemistry of paraffin-embedded mouse lung tissue with Anti-Human /Mouse FOXJ1 Purified followed by Anti-Mouse IgG Biotin (Product # 13-4013-85) and Avidin HRP (Product # 18-4100-51) (right). Data provided courtesy of Steven L. Brody.

mouse  
tracheal  
epithelial  
cells

**FOXJ1 Antibody (14-9965-82) in WB**

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.



[View more figures on thermofisher.com](https://www.thermofisher.com)

## Western Blot (3)

The Journal of biological chemistry

### Androglobin gene expression patterns and FOXJ1-dependent regulation indicate its functional association with ciliogenesis.

"Published figure using FOXJ1 monoclonal antibody (Product # 14-9965-82) in ChIP assay"

Authors: Koay TW, Osterhof C, Orlando IMC, Keppner A, Andre D, Yousefian S, Suárez Alonso M, Correia M, Markworth R, Schödel J, Hankeln T, Hoogewijs D

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Medical science monitor : international medical journal of experimental and clinical research

### Forkhead Box Protein J1 (FOXJ1) is Overexpressed in Colorectal Cancer and Promotes Nuclear Translocation of -Catenin in SW620 Cells.

"14-9965 was used in Western Blotting to demonstrate that increased FOXJ1 contributes to the progression of colorectal cancer."

Authors: Liu K, Fan J, Wu J

**Species**  
Human

**Dilution**  
1:500

**Year**  
2017

[View more WB references on thermofisher.com](#)

## Immunohistochemistry (38)

Cell reports

### SARS-CoV-2 infection of primary human lung epithelium for COVID-19 modeling and drug discovery.

"14-9965-82 was used in Immunohistochemistry to develop primary human lung epithelial infection models to understand initial responses of proximal and distal lung epithelium to SARS-CoV-2 infection."

Authors: Mulay A, Konda B, Garcia G, Yao C, Beil S, Villalba JM, Koziol C, Sen C, Purkayastha A, Kolls JK, Pociask DA, Pessina P, de Aja JS, Garcia-de-Alba C, Kim CF, Gomperts B, Arumugaswami V, Stripp BR

**Species**  
Human

**Dilution**  
1:300

**Year**  
2021

Physiological reports

### Long noncoding RNA TINCR is a novel regulator of human bronchial epithelial cell differentiation state.

"Published figure using FOXJ1 monoclonal antibody (Product # 14-9965-82) in Immunohistochemistry"

Authors: Omote N, Sakamoto K, Li Q, Schupp JC, Adams T, Ahangari F, Chioccioli M, Deluliis G, Hashimoto N, Hasegawa Y, Kaminski N

**Species**  
Human  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2021

[View more IHC references on thermofisher.com](#)

## More applications with references on thermofisher.com

IHC (P) (3)

IHC (PFA) (2)

IHC (F) (3)

ICC/IF (22)

Flow (2)

ChIP (1)

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