

# FOXP3 Monoclonal Antibody (NRRF-30), eBioscience™

## Product Details

Size	25 µg
Species	Mouse
Published Species	Mouse
Expression System	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	NRRF-30
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_529583

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	1 Publication
Western Blot (WB)	10 µg/mL	2 Publications
Flow Cytometry (Flow)	-	11 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	2 Publications
Immunohistochemistry (IHC)	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

Description: The NRRF-30 antibody reacts with mouse Foxp3 also known as FORKHEAD BOX P3, SCURFIN, and JM2; cross reactivity of this antibody to other proteins has not been determined. Foxp3, a 49-55 kDa protein, is a member of the forkhead /winged-helix family of transcriptional regulators, and was identified as the gene defective in 'scurfy' (sf) mice. Constitutive high expression of foxP3 mRNA has been shown in CD4+/CD25+ regulatory T cells (Treg cells), and ectopic expression of foxp3 in CD4+/CD25- cells imparts a Treg phenotype in these cells.

Immunoblotting with NRRF-30 antibody has mapped the epitope to amino acids 1-75 of the mouse Foxp3 protein.

Intracellular staining of mouse splenocytes with fluorochrome-conjugated NRRF-30 using the eBioscience Foxp3 Staining Buffers (cat. 00-5523) and corresponding staining protocol reveals approximately 3% of total cells in the C57Bl/6 strain and approximately 5% in the BALB/c mouse strain. Multicolor flow cytometric analysis demonstrates approximately 90% of the CD4+/CD25+ cells and 4% of the CD4+/CD25- cells staining with NRRF-30. Co-staining with FJK-16s (anti-mouse/rat Foxp3 cat. 71-5775), which has been mapped to amino acids 71-125, and NRRF-30 shows 100% correlation, indicating that the same cells are stained with both anti-mouse Foxp3 antibodies.

Please see our FAQ regarding the usage of eBioscience Foxp3 reagents.

Applications Reported: This NRRF-30 antibody has been reported for use in immunoblotting (WB), and immunohistology staining of frozen tissue sections.

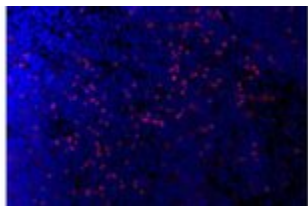
Applications Tested: This NRRF-30 antibody has been used at 2 µg/mL for the western blot analysis of Foxp3 expression in mouse splenocytes total cell lysates. This NRRF-30 antibody has been used in immunohistochemical staining of frozen mouse tissue and can be used at less than or equal to 10 µg/mL. 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 FOXP3 Monoclonal Antibody (NRRF-30), eBioscience™



#### FOXP3 Antibody (14-4771-80) in IHC (F)

Immunohistochemistry of frozen mouse spleen using 10 µg/mL Anti-Mouse Foxp3 Purified followed by Anti-Rat IgG TRITC. Nuclei are stained with DAPI.

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

## Flow Cytometry (11)

Nature communications

### Photothermal therapy with immune-adjuvant nanoparticles together with checkpoint blockade for effective cancer immunotherapy.

"Published figure using FOXP3 monoclonal antibody (Product # 14-4771-80) in Flow Cytometry"

Authors: Chen Q,Xu L,Liang C,Wang C,Peng R,Liu Z

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

Journal for immunotherapy of cancer

### Agonist anti-GITR monoclonal antibody and stereotactic radiation induce immune-mediated survival advantage in murine intracranial glioma.

"Published figure using FOXP3 monoclonal antibody (Product # 14-4771-80) in Flow Cytometry"

Authors: Patel MA, Kim JE, Theodos D, Tam A, Velarde E, Kochel CM, Francica B, Nirschl TR, Ghasemzadeh A, Mathios D, Harris-Bookman S, Jackson CC, Jackson C, Ye X, Tran PT, Tyler B, Coric V, Selby M, Brem H, Drake CG, Pardoll DM, Lim M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

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

## Western Blot (2)

PloS one

### Foxp3 expression in macrophages associated with RENCA tumors in mice.

"14-4771 was used in Western Blotting to study how tumour-associated macrophages could express Foxp3."

Authors: Devaud C, Yong CS, John LB, Westwood JA, Duong CP, House CM, Denoyer D, Li J, Darcy PK, Kershaw MH

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2015

The Journal of biological chemistry

### Foxp3 processing by proprotein convertases and control of regulatory T cell function.

"14-4771 was used in Western Blotting to investigate Foxp3 processing in Tregs."

Authors: de Zoeten EF, Lee I, Wang L, Chen C, Ge G, Wells AD, Hancock WW, Ozkaynak E

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2009

## More applications with references on thermofisher.com

Misc (1) ICC (1) IF (2) IHC (2) IHC (F) (1)

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