

Gata-3 Monoclonal Antibody (TWAJ), eFluor 660, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse, Pig, Rhesus monkey
Published Species	Artificial Control, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TWAJ
Conjugate	eFluor® 660
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596663

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	25 Publications
Immunohistochemistry (IHC)	-	1 Publication
Western Blot (WB)	-	1 Publication

Product Specific Information

Description: The monoclonal antibody TWAJ recognizes mouse and human Gata-3, a member of the Gata family of transcription factors. Gata-3 is a T cell-specific transcription factor important for thymic development and Th2 differentiation. Expression during embryonic development is found in the central nervous system, skin, mammary glands and kidney. During development, the expression of Gata-3 is essential as homozygous knock-out of Gata-3 is embryonic lethal. The Gata-3 is also essential for T cell commitment and survival. In the thymus, expression is found mainly on the CD4 single positive cells. During Th2 differentiation, Gata-3 binds to the IL-4 promoter as well as represses the expression of T-bet, thus inhibiting Th1 differentiation.

Alternative splice variants have been reported especially in the MCF7 cell line. The TWAJ Human/Mouse Gata-3 antibody will recognize both forms (50 and 45 kDa) of the protein.

Staining with the TWAJ Human/Mouse Gata-3 antibody requires the use of the Foxp3/Transcription Factor Staining Buffer Set.

Applications Reported: This TWAJ antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This TWAJ antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of mouse thymocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please see Best

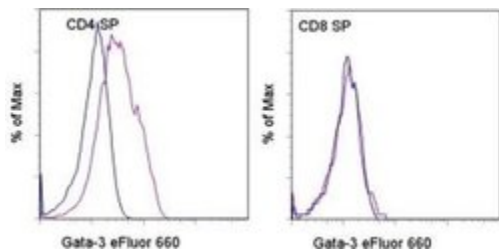
Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For Gata-3 Monoclonal Antibody (TWAJ), eFluor 660, eBioscience™



Gata-3 Antibody (50-9966-42) in Flow

Intracellular staining of BALB/c thymocytes with Anti-Mouse CD4 PE (Product # 12-0041-82), Anti-Mouse CD8a FITC (Product # 11-0081-82), and Rat IgG2b K Isotype Control eFluor® 660 (Product # 50-4031-82) (blue histogram) or Anti-Human/Mouse Gata-3 eFluor® 660 (purple histogram) using the Foxp3 Staining Buffers (Product # 00-5523-00). CD4 single-positive (left) or CD8 single-positive (right) cells were used for analysis.

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

27 References

Western Blot (1)

World journal of gastroenterology

Mesenchymal stem cells alleviate TNBS-induced colitis by modulating inflammatory and autoimmune responses.

"Published figure using Gata-3 monoclonal antibody (Product # 50-9966-42) in Western Blot"

Authors: Chen QQ,Yan L,Wang CZ,Wang WH,Shi H,Su BB,Zeng QH,Du HT,Wan J

Species
Not Applicable

Dilution
Not Cited

Year
2013

Immunohistochemistry (1)

Nature cell biology

GATA3 suppresses metastasis and modulates the tumour microenvironment by regulating microRNA-29b expression.

"Published figure using Gata-3 monoclonal antibody (Product # 50-9966-42) in Immunohistochemistry"

Authors: Chou J,Lin JH,Brenot A,Kim JW,Provot S,Werb Z

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2013

Flow Cytometry (25)

The Journal of experimental medicine

Mass cytometry reveals innate lymphoid cell differentiation pathways in the human fetal intestine.

Authors: Li N,van Unen V,Höllt T,Thompson A,van Bergen J,Pezzotti N,Eisemann E,Vilanova A,Chuva de Sousa Lopes SM,Lelieveldt BPF,Koning F

Species
Human

Dilution
Not Cited

Year
2018

Nature

Compartmentalized gut lymph node drainage dictates adaptive immune responses.

"Published figure using Gata-3 monoclonal antibody (Product # 50-9966-42) in Flow Cytometry"

Authors: Esterházy D,Canesso MCC,Mesin L,Muller PA,de Castro TBR,Lockhart A,EIJalby M,Faria AMC,Mucida D

Species
Not Applicable

Dilution
Not Cited

Year
2019

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More applications with references on thermofisher.com

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