

# Gata-3 Monoclonal Antibody (TWAJ), Alexa Fluor™ 488, eBioscience™

Product Details		
Size	25 Tests	
Species reactivity	Human, Mouse, Pig, Rhesus monkey	
Published species	Human, Mouse	
Host / Isotype	Rat / IgG2b, kappa	
Class	Monoclonal	
Type	Antibody	
Clone	TWAJ	
Conjugate	Alexa Fluor™ 488	
Form	Liquid	
Concentration	5 µL/Test	
Purification	Affinity chromatography	
Storage buffer	PBS, pH 7.2, with BSA	
Contains	0.09% sodium azide	
Storage conditions	4°C, store in dark, DO NOT FREEZE!	
RRID	AB_2574492	

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	5 Publications
Immunocytochemistry (ICC/IF)	1:250	-

## 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. ([Product # 00-5523-00](#))

Cross reactivity in rhesus monkeys has been published.

**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 ([Product # 00-5523](#)) and protocol. Please refer to [BestProtocols®](#): Protocol B: One step protocol for (nuclear) intracellular proteins located under the Resources Tab online. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>4</sup> to 10<sup>8</sup> cells/test.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Visit [thermofisher.com](http://thermofisher.com) to view references and figures.**

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