

Datasheet: TZA083GA

BATCH NUMBER 64744249

Description:	MOUSE ANTI HUMAN FOXP3
Specificity:	FOXP3
Other names:	Scurfin
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA16B16-01/2F5
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Source	CHO cells
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen	Recombinant FoxP3 Met1-Arg417 expressed by <i>E. coli</i>
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External Database Links

UniProt:

[Q9BZS1](#)

[Related reagents](#)

Entrez Gene:

[50943](#)

FOXP3

[Related reagents](#)

Synonyms

IPEX

Specificity

Mouse anti Human FoxP3 antibody, clone rA16B16-01/2F5, is a recombinant monoclonal antibody that recognizes FoxP3, also known as Scurfin or IPEX.

FoxP3 is a member of the forkhead transcription factor family. It is believed to be a master regulatory gene and is crucial for the development and inhibitory function of regulatory T-cells (Tregs). FoxP3 plays a central role in immune system homeostasis by driving the suppressive function and stability of the Treg lineage, through which it directly modulates the function and expansion of all T cells. The suppressive activity of Tregs involves the coordinated activation of several genes by FoxP3, including CTLA-4 and TNFRSF1, along with the repression of genes encoding inflammatory cytokines, such as interleukin-2 (IL-2) and interferon-gamma (IFN γ). FoxP3 is downregulated during inflammation to allow for the acquisition of effector T cell-like functions. FoxP3 inhibits cytokine production and T-cell effector function by repressing the activity of two key transcription factors, RELA and NFATC2.

FoxP3 is a key marker for CD4⁺ Tregs. FoxP3-expressing CD4⁺ Tregs have a key role in immune tolerance and suppression of autoimmune and anti tumor immune responses. FoxP3 deficiency causes immune dysregulation and enteropathy X-linked syndrome (IPEX).

Flow Cytometry

Use 5 μ l of the suggested working dilution to label 0.5x10⁶ cells in 100 μ l. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA083GA>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M450771:260522'

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