

Datasheet: TZA096SBV670

Description:	MOUSE ANTI HUMAN TIM-4:StarBright Violet 670
Specificity:	TIM-4
Other names:	SMUCKLER
Format:	StarBright Violet 670
Product Type:	Monoclonal Antibody
Clone:	rAB04-3G2
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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 (1)	▪			Neat

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.

(1) Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.

Target Species	Human		
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain and conjugated to StarBright Violet 670 – liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 670	401	667
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Source	CHO cells		

Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin 0.1% Pluronic F68 0.1% PEG 3350 0.05% Tween 20
Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page.
Immunogen	Recombinant TIM-4 Glu25-Gln314 expressed by mammalian cells
External Database Links	<p>UniProt: Q96H15 Related reagents</p> <p>Entrez Gene: 91937 TIMD4 Related reagents</p>
Synonyms	TIM4
Specificity	<p>Mouse anti Human TIM-4 antibody, clone rAB04-3G2, is a recombinant monoclonal antibody that recognizes TIM-4, also known as SMUCKLER, T-cell immunoglobulin and mucin domain-containing protein 4 or TIMD-4.</p> <p>TIM-4 is a ~ 42 kDa type I membrane protein which is preferentially expressed on macrophages, mature dendritic cells, peritoneal B1 cells and invariant natural killer T (iNKT) cells. TIM-4 is the ligand of TIM-1, and binding leads to T-cell proliferation and cytokine production.</p> <p>Polymorphisms in the TIM-4 gene may be associated with a predisposition to asthma. TIM-4 is expressed in various tumor cells, including lung cancer, colorectal cancer, and certain sarcomas. It can contribute to tumor growth and immune evasion by modulating the tumor microenvironment and promoting angiogenesis.</p>
Flow Cytometry	Use 5µl of the suggested working dilution to label 0.5x10 ⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.
Storage	<p>Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.</p> <p>This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Acknowledgements	This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See

bio-rad.com/en-us/trademarks for details.

This product is covered by U.S Patent No. 10,150,841 and related U.S and foreign counterparts.

Health And Safety Information Material Safety Datasheet documentation #20471 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA096SBV670>

Regulatory For research purposes only

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
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