

Datasheet: TZA096SBV670

BATCH NUMBER 64697318

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|----------------------|--|
| 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 | ▪ | | | 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.

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 (NaN₃)

| | |
|---------------------------------------|--|
| 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 | <p>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.</p> <p>This product is covered by U.S Patent No. 10,150,841 and related U.S and foreign counterparts.</p> |

**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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