

Datasheet: TZA0122GA

Description:	MOUSE ANTI HUMAN CD366
Specificity:	CD366
Other names:	TIM-3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA20B20-03/4A3
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 Concentrations	IgG concentration 1.0 mg/ml

Immunogen Recombinant CD366 Ser22-Gly202 expressed by mammalian cells

External Database

Links

UniProt:

[Q8TDQ0](#) [Related reagents](#)

Entrez Gene:

[84868](#) HAVCR2 [Related reagents](#)

Synonyms

TIM3, TIMD3

Specificity

Mouse anti Human CD366 antibody, clone rA20B20-03/4A3, is a recombinant monoclonal antibody that recognizes CD366, also known as T-cell immunoglobulin mucin family member 3 (TIM-3).

CD366 is a type I transmembrane glycoprotein encoded by the *HAVCR2* gene and part of the TIM family of proteins. It is expressed on the surface of Th1, Th17, Tc1 and Treg cells, natural killer cells, dendritic cells, monocytes, mast cells and macrophages. CD366 has a role in regulating immune responses by managing the balance between immune activation and tolerance. Interaction between CD366 and the first identified ligand, Galectin-9, results in Th1 cell death. Other CD366 ligands include carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1), phosphatidyl serine (PtdSer), and high-mobility group protein B1 (HMGB1).

CD366 is characterised as a marker of T cell exhaustion. It has been reported to be highly expressed in cancer tissues and is used as a negative prognostic biomarker for several types of tumor. CD366 has been identified as a potential therapeutic target in cancer immunotherapy and the treatment of sepsis. CD366 dysregulation is also related to the development of autoimmune diseases.

Flow Cytometry

Use 5µl of the suggested working dilution to label 0.5×10^6 cells in 100µl. 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

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.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/TZA0122GA>

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
'M450774:260522'

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