

Datasheet: TZA0162GA

BATCH NUMBER 64759441

Description:	MOUSE ANTI HUMAN CD40
Specificity:	CD40
Other names:	TNFRSF5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA38B38-06/3H2
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 CD40 Glu21-Arg193 expressed by mammalian cells
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External Database Links

UniProt:

[P25942](#)

[Related reagents](#)

Entrez Gene:

[958](#)

CD40

[Related reagents](#)

Synonyms

TNFRSF5

Specificity

Mouse anti Human CD40 antibody, clone rA38B38-06/3H2, is a recombinant monoclonal antibody that recognizes CD40, also known as Bp50 or Tumor necrosis factor receptor superfamily member 5.

CD40 is a type 1 transmembrane protein belonging to the Tumor Necrosis Factor Receptor (TNFR) superfamily. It is expressed on a variety of immune cells, including B lymphocytes, dendritic cells (DCs) and monocytes. The ligand for CD40 (CD154) is predominantly expressed on the surface of activated T cells. Ligand binding to CD40 activates a range of downstream signaling pathways including the canonical and non-canonical NF- κ B, PI3 kinase and MAP kinase pathways. On DCs, CD40 engagement by CD40 ligand expressing CD4⁺ T cells stimulates the production of proinflammatory cytokines and increases the expression of co-stimulatory molecules such as CD80. DCs are licensed to present exogenous molecules to CD8⁺ T cells, resulting in their activation. On B cells, CD40 engagement results in B cell activation, proliferation and differentiation.

CD40 can be used as a surface marker for B cells. It is a potential therapeutic target for treatment of cancer.

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

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:

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 (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
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
'M485697:260902'

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