Datasheet: TZA0171GA

Description:	MOUSE ANTI HUMAN KLRG1
Specificity:	KLRG1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rC40-03/5B10
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 KLRG1 aa 1-195 expressed by mammalian cells

External Database Links	**UniProt:** Q96E93 Related reagents **Entrez Gene:** 10219 KLRG1 Related reagents
Synonyms	CLEC15A, MAFA, MAFAL
Specificity	**Mouse anti Human KLRG1 antibody, clone rC40-03/5B10**, is a recombinant monoclonal antibody that recognizes Killer cell lectin-like receptor G1 (KLRG1), also known as Mast cell function-associated antigen. KLRG1 is an inhibitory lectin-like type II transmembrane receptor expressed predominantly by natural killer cells and some T cell subsets. It contains an extracellular c-type lectin domain that binds cadherin ligands on the surface of antigen presenting and tumor cells, promoting phosphorylation of the intracellular immunoreceptor tyrosine-based inhibitory motif (ITIM). KLRG1 signaling is secondary to lymphocyte activation and provides costimulatory and coinhibitory signals to regulate the activation and proliferation of immune cells. Inhibitory functions include inducing immune cell death and exhaustion and inhibiting cytokine production. KLRG1 expression typically increases with the degree of cellular differentiation. KLRG1 is considered a marker of T cell differentiation and senescence. Expression increases with disease severity in cancer, viral infections and autoimmunity and is considered a biomarker of disease progression and prognosis. KLRG1 is a potential therapeutic target in immuno-oncology.
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	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/TZA0171GA
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

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