Datasheet: MCA1911G

BATCH NUMBER 170860

Description:	MOUSE ANTI HUMAN INSULIN
Specificity:	INSULIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	E2E3
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			▪	
Immunohistology - Frozen	▪			1/50 - 1/100
Immunohistology - Paraffin	▪			1/50 - 1/100
ELISA	▪			(as detecting reagent 5ng/ml)
Immunoprecipitation			▪	
Western Blotting			▪	

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

Species Cross Reactivity

Reacts with: Bovine, Pig, Rabbit

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture

	supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% sodium azide (NaN_3) 0.1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Insulin conjugated to BSA.
External Database Links	**UniProt:** P01308 Related reagents **Entrez Gene:** 3630 INS Related reagents
RRID	AB_323672
Specificity	**Mouse anti Human Insulin antibody, clone E2E3** recognizes insulin, a major metabolic hormone produced by B cells of the pancreas.
Histology Positive Control Tissue	Human pancreas
References	1. Marigo, V. *et al.* (2009) TRPM4 impacts on Ca2+ signals during agonist-induced insulin secretion in pancreatic beta-cells. Mol Cell Endocrinol. 299 (2): 194-203. 2. McCluskey, J.T. *et al.* (2011) Development and functional characterization of insulin-releasing human pancreatic beta cell lines produced by electrofusion. J Biol Chem. 286: 21982-92. 3. Çakir, B. *et al.* (2012) Structure based discovery of small molecules to regulate the activity of human insulin degrading enzyme. PLoS One. 7 (2): e31787. 4. Ismail. H.I. & Alli, A.M. (2015) Immunohistochemical Studies on The Endocrine Cells in The Thymus of The One-Humped-Camel (*Camelus dromedarius*) J Camel Pract Res. 22 (2): 251. 5. Nishino, T. *et al.* (2021) Fructan Improves Survival and Function of Cryopreserved Rat Islets. Nutrients. 13 (9): 2959.
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

Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1911G
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 (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

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