

Datasheet: MCA1126T

Description:	MOUSE ANTI HUMAN AMYLIN
Specificity:	AMYLIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	R10/99
Isotype:	IgG1
Quantity:	0.25 ml

Product Details

RRID AB_2233369

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	▪			1/100
Immunohistology - Paraffin	▪			1/100
Immunofluorescence	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Tissue Culture Supernatant - liquid

Buffer Solution 0.1M TRIS

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Immunogen A peptide CATQRLANFLV corresponding to residues 40-50 of human IAPP coupled to tuberculin.

External Database Links

UniProt:

[P10997](#) [Related reagents](#)

Entrez Gene:

[3375](#) IAPP [Related reagents](#)

Fusion Partners Spleen cells from immunized a BALB/c mouse were fused with cells of the mouse SP2/0 myeloma cell line.

Specificity	Mouse anti Human Amylin antibody, clone R10/99 recognizes the islet amyloid polypeptide (amylin). Mouse anti Human Amylin antibody, clone R10/99 is of high affinity, and stains islet amyloid peptide in intra-cellular insulin granules, intra-cellular amyloid and extra-cellular islet amyloid.
Immunohistology	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
References	<ol style="list-style-type: none"> Gong, W. <i>et al.</i> (2007) Amylin deposition in the kidney of patients with diabetic nephropathy. Kidney Int. 72 (2): 213-8. Bhattacharya, S. <i>et al.</i> (2007) Cloning and expression of human islet amyloid polypeptide in cultured cells. Biochem Biophys Res Commun. 356: 622-8. Gurlo, T. <i>et al.</i> (2010) Evidence for proteotoxicity in beta cells in type 2 diabetes: toxic islet amyloid polypeptide oligomers form intracellularly in the secretory pathway. Am J Pathol. 176: 861-9. Zhao, H. <i>et al.</i> (2010) Up-regulated pancreatic tissue microRNA-375 associates with human type 2 diabetes through beta-cell deficit and islet amyloid deposition. Pancreas. 39: 843-6. Nakamura, S. <i>et al.</i> (2008) Transthyretin amyloidosis and two other aging-related amyloidoses in an aged vervet monkey. Vet Pathol. 45: 67-72. Zhao, H.L. <i>et al.</i> (2009) Amyloid oligomers in diabetic and nondiabetic human pancreas. Transl Res. 153: 24-32. Campbell-Thompson, M.L. <i>et al.</i> (2012) Staining protocols for human pancreatic islets. J Vis Exp. 63: e4068. Zhang, X. <i>et al.</i> (2011) Conformation-dependent scFv antibodies specifically recognize the oligomers assembled from various amyloids and show colocalization of amyloid fibrils with oligomers in patients with amyloidoses. Biochim Biophys Acta. 1814 (12): 1703-12. Ramos-Vera, J.A. <i>et al.</i> (2016) Advanced Diagnostic Techniques In: Canine and Feline Cytology - E-Book: A Color Atlas and Interpretation Guide Lee, J. <i>et al.</i> (2013) Expansion and conversion of human pancreatic ductal cells into insulin-secreting endocrine cells. Elife. 2: e00940. Miklossy, J. <i>et al.</i> (2008) Type 2 Diabetes: Local Inflammation and Direct Effect of Bacterial Toxic Components The Open Pathology Journal. 2 (1): 86-95. Zhang, X.X. <i>et al.</i> (2018) Human amylin induces CD4⁺Foxp3⁺ regulatory T cells in the protection from autoimmune diabetes. Immunol Res. 66 (1): 179-86.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10451 available at: 10451: https://www.bio-rad-antibodies.com/uploads/MSDS/10451.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

'M345891:190125'

Printed on 11 Oct 2019

© 2019 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)