Datasheet: MCA1126

BATCH NUMBER 173395

Description:	MOUSE ANTI HUMAN AMYLIN
Specificity:	AMYLIN
Other names:	IAPP
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	R10/99
Isotype:	IgG1
Quantity:	2 ml

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	▪			1/100
Immunohistology - Paraffin	▪			1/100
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
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	<0.1% Sodium Azide (NaN_3)
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
RRID	AB_2121635
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.
References	1. Gong, W. *et al.* (2007) Amylin deposition in the kidney of patients with diabetic nephropathy. Kidney Int. 72 (2): 213-8. 2. Bhattacharya, S. *et al.* (2007) Cloning and expression of human islet amyloid polypeptide in cultured cells. Biochem Biophys Res Commun. 356: 622-8. 3. Nakamura, S. *et al.* (2008) Transthyretin amyloidosis and two other aging-related amyloidoses in an aged vervet monkey. Vet Pathol. 45: 67-72. 4. Miklossy, J. *et al.* (2008) Type 2 Diabetes: Local Inflammation and Direct Effect of Bacterial Toxic Components The Open Path J. 2 (1): 86-95. 5. Zhao, H.L. *et al.* (2009) Amyloid oligomers in diabetic and nondiabetic human pancreas. Transl Res. 153: 24-32. 6. Gurlo, T. *et al.* (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. 7. Zhao, H. *et al.* (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. 8. Zhang, X. *et al.* (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. 9. Lee, J. *et al.* (2013) Expansion and conversion of human pancreatic ductal cells into insulin-secreting endocrine cells. Elife. 2: e00940. 10. Ramos-Vera, J.A. *et al.* (2016) Advanced Diagnostic Techniques In: Canine and Feline Cytology - E-Book: A Color Atlas and Interpretation Guide 11. Zhang, X.X. *et al.* (2018) Human amylin induces CD4+Foxp3+ regulatory T cells in the protection from autoimmune diabetes. Immunol Res. 66 (1): 179-86. 12. Wilson, M.E. *et al.* (2002) Expression pattern of IAPP and prohormone convertase 1/3 reveals a distinctive set of endocrine cells in the embryonic pancreas. Mech Dev. 115 (1-2): 171-6. 13. Busek, P. *et al.* (2015) Co-expression of the homologous proteases fibroblast

	activation protein and dipeptidyl peptidase-IV in the adult human Langerhans islets. Histochem Cell Biol. 143 (5): 497-504.
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 #10451 available at: https://www.bio-rad-antibodies.com/SDS/MCA1126
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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