

Datasheet: MCA1126

BATCH NUMBER 173414

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
'M418588:230427'

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