

Datasheet: MCA1126

Description:	MOUSE ANTI HUMAN AMYLIN
Specificity:	AMYLIN
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. 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.](#)
4. 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.](#)
5. Nakamura, S. *et al.* (2008) Transthyretin amyloidosis and two other aging-related amyloidoses in an aged vervet monkey. [Vet Pathol. 45: 67-72.](#)
6. Zhao, H.L. *et al.* (2009) Amyloid oligomers in diabetic and nondiabetic human pancreas. [Transl Res. 153: 24-32.](#)
7. Campbell-Thompson, M.L. *et al.* (2012) Staining protocols for human pancreatic islets. [J Vis Exp. 63: e4068.](#)
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. Ramos-Vera, J.A. *et al.* (2016) Advanced Diagnostic Techniques [In: Canine and Feline Cytology - E-Book: A Color Atlas and Interpretation Guide](#)
10. Lee, J. *et al.* (2013) Expansion and conversion of human pancreatic ductal cells into insulin-secreting endocrine cells. [Elife. 2: e00940.](#)
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.](#)

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
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Health And Safety Information	Material Safety Datasheet documentation #10451 available at: 10451: https://www.bio-rad-antibodies.com/uploads/MSDS/10451.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	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
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M408244:221011'

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