

Datasheet: MCA2172

Description:	MOUSE ANTI HUMAN BETA AMYLOID (aa1-17)
Specificity:	BETA AMYLOID (aa1-17)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DE2B4
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			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting		▪		
Immunofluorescence	▪			

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.

(1) This product requires protein digestion pre-treatment of paraffin sections using formic acid for 2-3 minutes.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Synthetic peptide consisting of residues 1 - 17 of the amyloid beta protein.

External Database Links

UniProt:
[P05067](#) [Related reagents](#)

Entrez Gene:
[351](#) APP [Related reagents](#)

Synonyms A4, AD1

RRID AB_323833

Specificity **Mouse anti Human beta amyloid antibody, clone DE2B4** recognizes the human beta amyloid peptide, the major protein component of amyloid cores in neuritic plaques.

In immunohistology the antibody detects extracellular amyloid beta with senile plaques and vessel amyloid in Alzheimer's disease brain.

Histology Positive Control Tissue

Alzheimer's disease brain

References

1. Kitamoto, T. *et al.* (1987) Formic acid pretreatment enhances immunostaining of cerebral and systemic amyloids. [Lab Invest. 57 \(2\): 230-6.](#)
 2. Lee, M.H. *et al.* (2010) TGF- β induces TIAF1 self-aggregation via type II receptor-independent signaling that leads to generation of amyloid β plaques in Alzheimer's disease. [Cell Death Dis. 1: e110.](#)
 3. Koronyo-Hamaoui, M. *et al.* (2011) Identification of amyloid plaques in retinas from Alzheimer's patients and noninvasive in vivo optical imaging of retinal plaques in a mouse model. [Neuroimage. 54 Suppl 1: S204-17.](#)
 4. Chang, J.Y. *et al.* (2012) TIAF1 self-aggregation in peritumor capsule formation, spontaneous activation of SMAD-responsive promoter in p53-deficient environment, and cell death. [Cell Death Dis. 3: e302.](#)
 5. Chang, J.Y. *et al.* (2015) Trafficking protein particle complex 6A delta (TRAPPC6A Δ) is an extracellular plaque-forming protein in the brain. [Oncotarget. 6 \(6\): 3578-89.](#)
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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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2172 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
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 (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

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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](https://www.bio-rad-antibodies.com/datasheets)

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