

## Datasheet: MCA2172

**BATCH NUMBER 168085**

<b>Description:</b>	MOUSE ANTI HUMAN BETA AMYLOID (aa1-17)
<b>Specificity:</b>	BETA AMYLOID (aa1-17)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	DE2B4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Synthetic peptide consisting of residues 1 - 17 of the amyloid beta protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05067</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">351</a>    APP    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	A4, AD1
<b>RRID</b>	AB_323833
<b>Specificity</b>	<p><b>Mouse anti Human beta amyloid antibody, clone DE2B4</b> recognizes the human beta amyloid peptide, the major protein component of amyloid cores in neuritic plaques.</p> <p>In immunohistology the antibody detects extracellular amyloid beta with senile plaques and vessel amyloid in Alzheimer's disease brain.</p>
<b>Histology Positive Control Tissue</b>	Alzheimer's disease brain
<b>References</b>	<ol style="list-style-type: none"> <li>1. Kitamoto, T. <i>et al.</i> (1987) Formic acid pretreatment enhances immunostaining of cerebral and systemic amyloids. <a href="#">Lab Invest. 57 (2): 230-6.</a></li> <li>2. Lee, M.H. <i>et al.</i> (2010) TGF-<math>\beta</math> induces TIAF1 self-aggregation via type II receptor-independent signaling that leads to generation of amyloid <math>\beta</math> plaques in Alzheimer's disease. <a href="#">Cell Death Dis. 1: e110.</a></li> <li>3. Koronyo-Hamaoui, M. <i>et al.</i> (2011) Identification of amyloid plaques in retinas from Alzheimer's patients and noninvasive in vivo optical imaging of retinal plaques in a mouse model. <a href="#">Neuroimage. 54 Suppl 1: S204-17.</a></li> <li>4. Chang, J.Y. <i>et al.</i> (2012) TIAF1 self-aggregation in peritumor capsule formation, spontaneous activation of SMAD-responsive promoter in p53-deficient environment, and cell death. <a href="#">Cell Death Dis. 3: e302.</a></li> <li>5. Chang, J.Y. <i>et al.</i> (2015) Trafficking protein particle complex 6A delta (TRAPPC6A<math>\Delta</math>) is an extracellular plaque-forming protein in the brain. <a href="#">Oncotarget. 6 (6): 3578-89.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in</p>

frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2172">https://www.bio-rad-antibodies.com/SDS/MCA2172</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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