

Datasheet: MCA2172

BATCH NUMBER 160353

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| 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.

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| 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 |

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| Preservative Stabilisers | 0.09% Sodium Azide |
| 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 | <p>UniProt: P05067 Related reagents</p> <p>Entrez Gene: 351 APP Related reagents</p> |
| Synonyms | A4, AD1 |
| RRID | AB_323833 |
| Specificity | <p>Mouse anti Human Beta Amyloid antibody, clone DE2B4 recognizes the human beta amyloid peptide, which is the major protein component of the 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> |
| Histology Positive Control Tissue | Alzheimer's disease brain |
| References | <ol style="list-style-type: none"> 1. Kitamoto, T. <i>et al.</i> (1987) Formic acid pretreatment enhances immunostaining of cerebral and systemic amyloids. Lab Invest. 57 (2): 230-6. 2. Lee, M.H. <i>et al.</i> (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. 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. Cell Death Dis. 3: e302. 4. 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. Neuroimage. 54 Suppl 1: S204-17. 5. Chang, J.Y. <i>et al.</i> (2015) Trafficking protein particle complex 6A delta (TRAPPC6AΔ) is an extracellular plaque-forming protein in the brain. Oncotarget. 6 (6): 3578-89. |
| 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.

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

Recommended Secondary Antibodies

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

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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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