## ፅ invitrogen

## Mouse (monoclonal) Anti-tau (421/422) Cleavage Site Specific Antibody, Unconjugated PRODUCT ANALYSIS SHEET

| Catalog Number:  | AHB0061  |  |  |  |
|--|--|--|--|--|
| Lot Number:  | See product label  |  |  |  |
| Expiration Date:   | See product label  |  |  |  |
| Quantity/Volume:   | 50 μg/0.1 mL   |  |  |  |
| Clone Number:  | TauC3  |  |  |  |
| Isotype:   | IgG1ĸ  |  |  |  |
| Form of Antibody:  | Purified immunoglobulin in phosphate buffered saline, pH 7.2, with 1% bovine serum albumin.  |  |  |  |
| Preservation:  | 0.1% sodium azide (Caution: sodium azide is a poisonous and hazardous substance.<br>Handle with care and dispose of properly.)   |  |  |  |
| Purification:  | Purified from ascites by affinity chromatography.  |  |  |  |
| Immunogen:   | KLH-CSSTGSIDMVD, corresponding to the C terminus of tau truncated at Asp421.   |  |  |  |
| Specificity:   | This antibody recognizes tau when truncated at Asp421. Several caspases, including caspase-3, caspase-7, and caspase-8, cleave tau at this site, yielding the truncated form of the protein. This antibody does not react with full-length tau, or with tau truncated at Glu391 or Ala429. Tau is a microtubule-associated protein found predominantly in neuronal axons of vertebrate brain that promotes the assembly of tubulin monomers into microtubules and stabilizes microtubules. Hyperphosphorylation impairs the microtubule binding function of tau. Hyperphosphorylated tau is the major component of paired helical filaments (PHF), the building block of neurofibrillary lesions in Alzheimer's disease (AD) brain. The truncation state of tau can influence many of its pathologic characteristics, including its ability to assume AD-related conformations and to assemble into filaments. Recent data suggest that $A\beta$ can trigger caspase activation and cell apoptosis. Caspase cleavage of tau at Asp 421 at the C-terminus is an important inducer of tau polymerization in Alzheimer's disease. This antibody provides a tool for studying neuronal cell apoptosis. |  |  |  |
| Species Reactivity:  | Human, mouse and rat. Other species were not tested.   |  |  |  |
| Applications:  | This antibody is suitable for use in Western blotting, immunoprecipitation and immunohistochemistry.   |  |  |  |
| Suggested Working<br>Dilutions:  | For Western blotting, the recommended concentration is 1 $\mu$ g/mL. The optimal antibody concentration should be determined for each specific application.  |  |  |  |
| Recommended Positive<br>Control:   | Tau and caspase-3 cleaved tau.   |  |  |  |
| Storage:   | Store at 2-8°C. For long term storage, aliquot into small volumes and store at $-20$ °C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.   |  |  |  |
| For Research Use Only. CAUTION: Not for human or animal therapeutic or diagnostic use.                                       |  |  |  |  |
| Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: <u>techsupport@invitrogen.com</u> |  |  |  |  |

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| Explanation of symbols |   |             |  |  |
|------------------------|---|-------------|--|--|
| Symbol                 | Description   | Symbol      | Description                                  |  |
| REF                    | Catalogue Number  | LOT         | Batch code                                   |  |
| RUO                    | Research Use Only   | IVD         | In vitro diagnostic medical device           |  |
| X                      | Use by  | ł           | Temperature limitation                       |  |
| ***                    | Manufacturer  | EC REP      | European Community authorised representative |  |
| [-]                    | Without, does not contain   | [+]         | With, contains                               |  |
|                        | Protect from light  | $\triangle$ | Consult accompanying documents               |  |
| []i                    | Directs the user to consult instructions for use (IFU), accompanying the product. |             |  |  |

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