Mouse Monoclonal Antibody to

**Amyloid βA4 (1-40), C-Terminus**

close 5C3

**Order No.:** 0060-100FITC/bA4(40)-5C3

**Size (μg):** 100

**Lot No.:** 0060S

<table>
<thead>
<tr>
<th>Isotype</th>
<th>Species Reactivity</th>
<th>Applications</th>
<th>Mol. Weight</th>
<th>Ref. Cell Line</th>
<th>Epitope</th>
<th>Immunogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>IgG1</td>
<td>human</td>
<td>ICC</td>
<td>none</td>
<td>C-Terminus of Amyloid βA4 (1-40), does not crossreact with βA4 (1-42)</td>
<td>C-terminal peptide conjugated to KLH</td>
<td></td>
</tr>
</tbody>
</table>

**Background and Specificity:**

The beta-amyloid peptide (beta A4), proteolytically released from the amyloid precursor protein (APP), is the principal component of senile plaques in Alzheimer's disease. Cleavage of APP by alpha-secretase or alternatively by beta-secretase leads to generation and extracellular release of soluble APP peptides, S-APP-alpha and S-APP-beta, respectively, and the retention of corresponding membrane-anchored C-terminal fragments, C83 and C99. Subsequent processing of C83 by gamma-secretase yields P3 peptides. This is the major secretory pathway and is nonamyloidogenic. Alternatively, presenilin/nicastrin-mediated gamma-secretase processing of C99 releases the amyloid beta proteins, amyloid-beta 40 (Abeta40) and amyloid-beta 42 (Abeta42), major components of amyloid plaques, and the cytotoxic C-terminal fragments, gamma-CTF(50), gamma-CTF(57) and gamma-CTF(59).

**Mab βA4(40)-5C3** specifically interacts with the C-Terminus of β-Amyloid (1 - 40) and does not crossreact with β-Amyloid (1 - 42).

**Purification:** The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

**Formulation:** liquid; 0.5 mg/ml in PBS/0.09% Na-Azide/PEG and Sucrose

**Reconstitution:** Aliquote and freeze in liquid nitrogen; store aliquots frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Stability:** Avoid repeated freeze / thaw cycles.

**Positive Control:** none

**Immunoblotting:** Please use unlabelled or biotinylated antibody for this application. See related products.

**Immunoprecipitation:** ND

**Immunocytochemistry:** use at 1 - 10 μg/ml

**ELISA:** ND

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.

**ND**

**ELISA:** use at 1 - 10 μg/ml

**Immunocytochemistry:** none

**Positive Control:** mab to βA4, N-Terminus #0064-100bA4N-19H5

mab to βA4, N-Terminus #0084-100bA4N-19H11

mab to βA4, N-Terminus #0196-100bA4N-7F9

mab to βA4, N-Terminus #0197-100bA4N-11H3

mab to βA4 (1-40), C-Terminus #0004-100bA4(40)-5C3

mab to βA4 (1-40/42), C-Terminus #0002-100bA4(40/42)-3F1

mab to βA4 (1-43), C-Terminus #0061-100bA4(40)-9F1

mab to βA4 (1-43), C-Terminus #0095-100bA4(43)-5G12

**Related Products**