HRP anti-β-Amyloid, 1-16 Antibody (Previously Covance catalog# SIG-39345)

Catalog# / Size  803011 / 400 µl
Clone  6E10 (See other available formats)
Other Names  AAA, ABETA, ABPP, AD1, APPi, CTFgamma, CVAP, PN
-I, PN2, Amyloid beta A4 protein, preA4, protease nexin-II, peptide nexin-II, beta-amyloid peptide, alzheimer disease amyloid protein, cerebral vascular amyloid peptide, APP, Amyloid Precursor Protein
Previously  Signet Catalog# 9345-02
Covance Catalog# SIG-39345
Isotype  Mouse IgG1
Ave. Rating  ★★★★★  0 reviews

Description
Amyloid beta (Aβ or Abeta) denotes peptides of 36–43 amino acids in length that are crucially involved in Alzheimer’s disease as the main component of the amyloid plaques found in the brains of Alzheimer patients. The peptides result from the amyloid precursor protein (APP), which is cut by certain enzymes to yield Aβ. Aβ molecules can aggregate to form oligomers (known as “seeds”) which are believed to be able to induce other Aβ molecules to also take the misfolded oligomeric form, leading to a chain reaction akin to a prion infection. The seeds or the resulting amyloid plaques are toxic to nerve cells. The other protein implicated in Alzheimer’s disease, tau protein, also forms such prion-like misfolded oligomers, and there is some evidence that misfolded Aβ can induce tau to misfold.

Reactivity
Human

Formulation
Aqueous buffered solution containing a carrier protein and preservatives.

Preparation
The antibody was purified by affinity chromatography.

Concentration
0.5 mg/ml

Storage & Handling
This product is guaranteed for three months. The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

Application
ELISA, WB, IHC, EM, IP

Recommended Usage
Each lot of this antibody is quality control tested by ELISA assay.

The optimal working dilution should be determined for each specific assay condition.
- WB: 1:500 - 1:1,000
- IHC: 1:50 - 1:500

Tissue: Formalin-fixed human paraffin-embedded brain sections, frozen brain sections
Pre-treatment: Formic acid (70%) for 10-30 minutes at room temperature

Application Notes
This antibody is effective in immunoblotting (WB), immunohistochemistry (IHC), and ELISA.

*Expected MW: APP = ~100 kD, sAPPalpha = ~100 kD, Beta Amyloid = 4 kD

This antibody is reactive to amino acid residue 1-16 of beta amyloid. The epitope lies within amino acids 3-4 of beta amyloid (EFRHDS). Beta amyloid forms are deposited in the CNS of patients with Alzheimer's disease and Down's syndrome. BioLegend's beta amyloid antibody clone 6E10 reacts to the abnormally processed isoforms, as well as precursor forms.

This antibody is exclusively provided by BioLegend.

Application References
are processed to Amyloid beta-proteins 40 and 42. Biochem 43:13523-13540, 2004.

RRID AB_2564667 (BioLegend Cat. No. 803011)

Antigen Details

Gene ID 351

UniProt View information about beta-Amyloid, 1-16 on UniProt.org

Documentation

Technical data sheet
Certificate of Analysis
Safety Data Sheet

Related Protocols

Sandwich ELISA Protocol

Related FAQs

There are no FAQs for this product.

Related Categories

NeuroscienceProducts > Protein Misfolding and Aggregation > APP/β-Amyloid Antibodies

Other Formats

<table>
<thead>
<tr>
<th>Description</th>
<th>Clone</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexa Fluor® 488 anti-β-Amyloid, 1-16</td>
<td>6E10</td>
<td>IHC, ELISA</td>
</tr>
<tr>
<td>Anti-β-Amyloid, 1-16</td>
<td>6E10</td>
<td>ELISA, WB, IHC, IP, EM</td>
</tr>
<tr>
<td>Biotin anti-β-Amyloid, 1-16</td>
<td>6E10</td>
<td>ELISA, WB, IHC, IP</td>
</tr>
<tr>
<td>LEAF™ Purified anti-β-Amyloid, 1-16</td>
<td>6E10</td>
<td>ELISA, WB, IHC, IP</td>
</tr>
<tr>
<td>Purified anti-β-Amyloid, 1-16</td>
<td>6E10</td>
<td>ELISA, WB, IHC, IP</td>
</tr>
</tbody>
</table>