Alexa Fluor® 488 anti-β-Amyloid, 1-16

Catalog # / Size: 803013 / 200 µl
Previously: Covance Catalog# SIG-39347
Signet Catalog# 9347-02
Clone: 6E10
Isotype: Mouse IgG1
Reactivity: Human
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 1 mg/mL
Storage: Store between 2-8°C.

Applications:
Applications: IHC, ELISA

Recommended Usage: Each lot of this antibody is quality control tested by immunohistochemical staining.

The optimal working dilution should be determined for each specific assay condition.

• IHC: 1:100 - 1:1,000

Tissue Sections: Formalin-fixed paraffin-embedded sections
Pretreatment: Formic acid (70%) for 10-30 minutes at room temperature

Application Notes: This antibody is effective in immunoblotting (WB), immunohistochemistry (IHC), immunoprecipitation (IP), 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 3-8 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:

Description: Amyloid beta (Aβ) or Amyloid beta) 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.

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### Other Names:
- AAA, ABETA, ABPP, AD1, APPI, CTFgamma, CVAP, PN-II, PN2
- Amyloid beta A4 protein, preA4, protease nexin-II, peptidase nexin-II, beta-amyloid peptide, alzheimer disease amyloid protein, cerebral vascular amyloid peptide, APP, Amyloid Precursor Protein

### Related Products:

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