

Biotin anti- β -Amyloid, x-42 Antibody (Previously Covance catalog# SIG-39170)

Catalog# / Size	812103 / 50 μ L
Clone	1-11-3
Regulatory Status	RUO
Other Names	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
Previously	Covance Catalog# SIG-39170
Isotype	Rabbit IgG
Description	Amyloid beta ($A\beta$ 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 $A\beta$. $A\beta$ molecules can aggregate to form oligomers (known as "seeds") which are believed to be able to induce other $A\beta$ 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 $A\beta$ can induce tau to misfold.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rabbit
Formulation	Phosphate-buffered solution.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
Application	ELISA, IHC
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. <ul style="list-style-type: none"> • ELISA: 1:10 (then 10-fold serial dilutions) • IHC: 1:100 - 1:200* <i>Tissue:</i> Formalin-fixed Paraffin-embedded sections <i>Pretreatment:</i> 70% Formic Acid <i>Primary Incubation:</i> 24 hours at 4°C
Application Notes	This antibody is effective in Immunohistochemistry (IHC) and Enzyme-linked Immunosorbent Assay (ELISA). *Positive control tissue: Human Alzheimer's Brain This antibody is reactive to the C-terminus of beta amyloid and is specific for the isoform that ends at the 42nd amino acid.
RRID	AB_2564764 (BioLegend Cat. No. 812103)
Disclaimer	Covered by US patents 5,675,063 and 7,429,487. Sold under license from Epitomics.

Antigen Details

Biology Area	Cell Biology, Neurodegeneration, Neuroscience, Protein Misfolding and Aggregation
Molecular Family	APP/ β -Amyloid
Gene ID	351

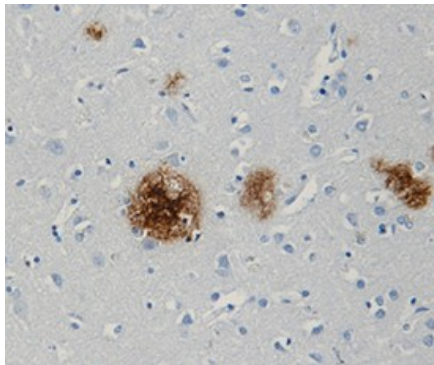
Related Protocols

[Sandwich ELISA Protocol](#)

Other Formats

Biotin anti- β -Amyloid, x-42, Purified anti- β -Amyloid, x-42

Product Data



Positive staining of Clone 1-11-3 on formalin-fixed paraffin-embedded Human Alzheimer's Brain at 10 μ g/mL.

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