

Purified anti- β -Amyloid, x-42 Antibody (Previously Covance catalog# SIG-39169)

Catalog# / Size	812101 / 50 μ g
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-39169
Isotype	Rabbit IgG
Description	Alzheimer's disease is characterized by the accumulation of aggregated A β peptides in senile plaques and vascular deposits. A β peptides are derived from amyloid precursor protein (APP) through sequential proteolytic cleavage of APP by β - and γ -secretases generating diverse A β species. A β can aggregate to form soluble oligomeric species and insoluble fibrillar or amorphous assemblies. Some forms of the aggregated peptides are toxic to neurons.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rabbit
Formulation	Phosphate-buffered solution (no preservatives or carrier proteins).
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 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	IHC-P - Quality tested WB - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10 μ g/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	This antibody is effective in immunohistochemistry (IHC-P) and immunoblotting (WB). This antibody is reactive to the C-terminus of beta amyloid and specific for the isoform that ends at the 42nd amino acid.
Application References	1. Currais A, <i>et al.</i> 2012. <i>Aging Cell</i> 6:1017. (IHC) PubMed 2. Mastrangelo MA, Bowers WJ. 2008. <i>BMC Neurosci.</i> 9:81. (IHC) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Currais A, <i>et al.</i> 2012. <i>Aging Cell.</i> 11:1017-1026. PubMed 2. Bowers M 2008. <i>BMC Neurosci.</i> 9:81. PubMed
RRID	AB_2564763 (BioLegend Cat. No. 812101)
Disclaimer	Covered by US patents 5,675,063 and 7,429,487. Sold under license from Epitomics.

Antigen Details

Structure	Expected MW: 4 kD
Distribution	Tissue distribution: Primarily nervous system, but also adipose tissue, intestine, muscle. Cellular distribution: Cytosol, endosomes, nucleus, plasma membrane, extracellular, and golgi apparatus.
Function	The normal function of A β is not well understood. Several potential physiological roles have been proposed, including: activation of kinase enzymes; protection against oxidative stress; regulation of cholesterol transport; transcription factor, and as an anti-microbial agent.
Biology Area	Cell Biology, Neurodegeneration, Neuroscience, Protein Misfolding and Aggregation
Molecular Family	APP/ β -Amyloid
Gene ID	351

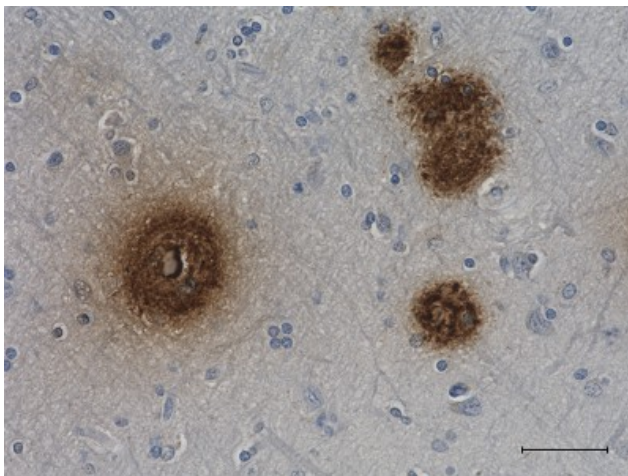
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

Other Formats

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

Product Data



IHC staining of purified anti- β -Amyloid, x-42 antibody (clone 1-11-3) on formalin-fixed paraffin-embedded human Alzheimer's disease brain tissue. Following antigen retrieval using 70% formic acid for 20 minutes at room temperature, the tissue was incubated with 5 μ g/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 μ m

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