

Purified anti- β -Amyloid Pyroglutamyl (Glu3) Antibody (Previously Covance catalog# MMS-5280)

Catalog# / Size	822301 / 100 μ L
Clone	337.48
Regulatory Status	RUO
Other Names	Amyloid beta A4 protein, preA4, protease nexin-II, peptidase nexin-II, beta-amyloid peptide, APP, Amyloid Precursor Protein, Pyroglutamate-modified A β , Pyroglutamate amyloid- β (A β), PyroGlu- A β , PyroGlu Abeta, Pyroglutamate-3 Amyloid- β
Previously	Covance Catalog# MMS-5280
Isotype	Mouse IgG1, κ
Description	Amyloid beta (A β 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 β . A β molecules can aggregate to form oligomers (known as "seeds") which are believed to be able to induce other A β 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 β can induce tau to misfold.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a synthetic peptide corresponding to amino acids 3 through 16 of Amyloid Beta with a pyroglutamyl post translational modification at the third glutamate position (E3).
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	IHC-P - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 1.0 - 10 μ g/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2564857 (BioLegend Cat. No. 822301)

Antigen Details

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

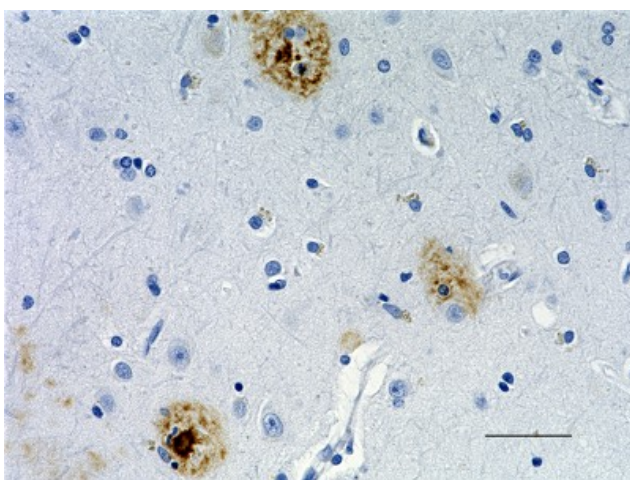
Related Protocols

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

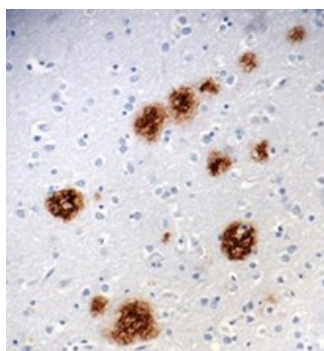
Other Formats

Purified anti- β -Amyloid Pyroglutamyl (Glu3)

Product Data



IHC staining of purified anti- β -Amyloid Pyroglutamyl (Glu3) antibody (clone 337.48) on formalin-fixed paraffin-embedded Alzheimer's disease human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 1 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



IHC staining of purified anti- β -Amyloid Pyroglutamyl (Glu3) antibody (clone 337.48) on formalin-fixed paraffin-embedded Alzheimer's disease human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 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.

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