

Product Datasheet

Apolipoprotein E/ApoE Antibody (3D12) NBP1-97424-0.5ml

Unit Size: 0.5 ml

Store at -20C. Avoid freeze-thaw cycles.

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NBP1-97424-0.5ml

Apolipoprotein E/ApoE Antibody (3D12)

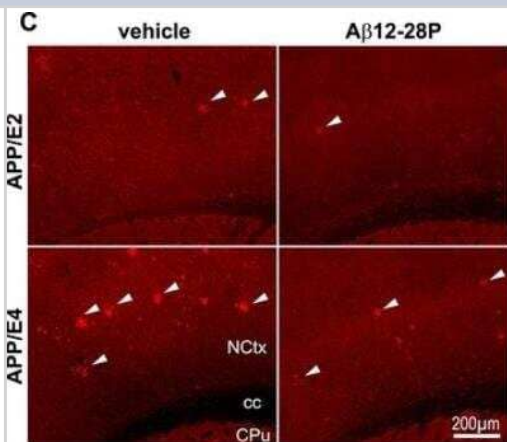
Product Information	
Unit Size	0.5 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3D12
Preservative	1% Dextran, 1% Mannitol
Reconstitution Instructions	Reconstitute in 1 ml sterile pure water
Isotype	IgG1
Purity	Sodium sulfate precipitation
Buffer	Lyophilized from 0.01M sodium phosphate, 0.01M sodium borate, 0.15M sodium chloride, pH 8

Product Description	
Description	Please note the 0.5ml size comes in reconstituted form.
Host	Mouse
Gene ID	348
Gene Symbol	APOE
Species	Human, Mouse
Reactivity Notes	Mouse reactivity data from actaneurocomms.biomedcentral.com/articles/10.1186/s40478-014-0075-0 .
Specificity/Sensitivity	The antibody reacts with very low density lipoproteins (VLDL) of human plasma. It is specific for human apo-E. No cross reactions with other human plasma proteins were detected. This antibody reacts as well with LDL as with VLDL. This antibody recognizes all alleles of APO-E.
Immunogen	Apolipoprotein E/ApoE
Notes	Please note the 0.5ml size comes in reconstituted form.

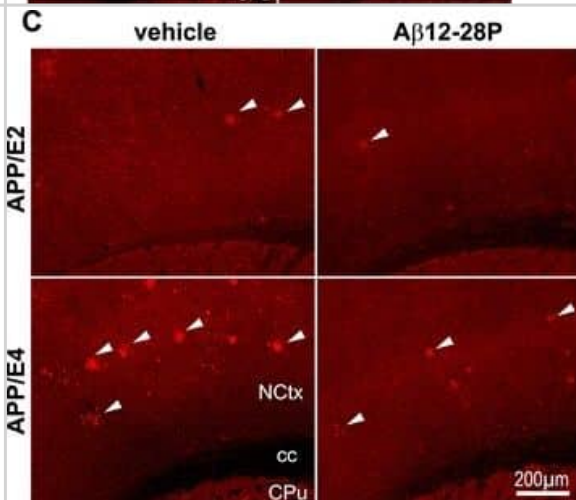
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot, ELISA 1:1000, Immunohistochemistry 1:25, Immunohistochemistry-Frozen 1:25
Application Notes	In combination with other mabs for detection of VLDL in plasma, and for the specific detection of apo-E. The antibody is also useful for detection of apo-E in tissue sections. The antibody can be used in ELISA techniques and in immunohistochemistry on frozen sections and possibly on paraffin embedded tissues. For application on paraffin embedded tissues an optimal dilution has to be determined within each laboratory. For depletion experiments the antibody should be used in a solid phase system.

Images

Immunohistochemistry: Apolipoprotein E/ApoE Antibody (3D12) [NBP1-97424] - Aβ12-28P treatment reduces soluble and insoluble brain apoE levels and apoE deposition in Aβ plaques in APP/E2 and APP/E4 mice. Representative microphotographs of coronal sections through the sensorimotor cortex at the level of the posterior caudate-putamen from vehicle- and Aβ12-28P-treated APP/E2 and APP/E4 mice, which were immunostained against human apoE. White arrowheads indicate apoE positive deposits. Scalebar 200 μm. Abbreviations: cc, corpus callosum; CPu, caudate-putamen; NCtx, neocortex. Image collected and cropped by CiteAb from the following publication (actaneurocomms.biomedcentral.com/articles/10.1186/s40478-014-0075-0), licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: Apolipoprotein E/ApoE Antibody (3D12) [NBP1-97424] - Aβ12-28P treatment reduces soluble and insoluble brain apoE levels & apoE deposition in Aβ plaques in APP/E2 & APP/E4 mice. Levels of soluble (diethylamine-extractable) human apoE (A) & those of insoluble (formic-acid-extractable) human apoE (B). Values are mean (±SEM) in 11–12 animals of APP/E2 background & 8 animals of APP/E4 background. (C) Representative microphotographs of coronal sections through the sensorimotor cortex at the level of the posterior caudate-putamen from vehicle- & Aβ12-28P-treated APP/E2 & APP/E4 mice, which were immunostained against human apoE. White arrowheads indicate apoE positive deposits. (D) Mean (±SEM) human apoE positive plaque load in the neocortex & the hippocampus (n = 7–8/group). (A, B, D) * p < 0.05, ** p < 0.01, *** p < 0.001, **** p < 0.0001, versus vehicle-treated mice of the same APOE background (Student's t test). ## p < 0.01, ##### p < 0.0001, vehicle-treated APP/E2 mice vs. vehicle-treated APP/E4 mice (Student's t test). Scalebar 200 μm (C). Abbreviations: cc, corpus callosum; CPu, caudate-putamen; NCtx, neocortex. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/24972680>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Blocking the apoE/A beta Interaction Ameliorates A beta-related Pathology in APOE epsilon 2 and epsilon 4 Targeted Replacement Alzheimer Model Mice Pankiewicz J, Guridi M, Kim J et al. Acta Neuropathol Commun. [PMID: 24972680] (IF/IHC, Mouse)



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