

## Purified anti-Apo E4 Antibody (Previously Covance catalog# MMS-5015)

<b>Catalog# / Size</b>	811602 / 25 µL 811601 / 100 µL
<b>Clone</b>	5B5/ApoE4
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	APO-E, Apolipoprotein E, Apolipoprotein E4, ApoE
<b>Previously</b>	Covance Catalog# MMS-5015
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	<p>Apolipoprotein E (ApoE) belongs to a class of apolipoproteins that binds to lipids to form lipoproteins. ApoE is produced by the liver and macrophages in peripheral tissues where it regulates cholesterol metabolism. In the central nervous system, ApoE is primarily produced by astrocytes and plays an important role in transporting cholesterol to neurons via ApoE receptors. ApoE has three major isoforms corresponding to three alleles (ApoE2, ApoE3 and ApoE4) that differ from each other by only one or two amino acids at positions 112 and 158. ApoE4 is one of the largest known genetic risk factors for late-onset Alzheimer's disease. Further, ApoE4 has been implicated in several other diseases such as atherosclerosis, impaired cognitive function and multiple sclerosis.</p>

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	This monoclonal antibody was raised against a peptide sequence derived from the human APO E4 protein.
<b>Formulation</b>	Phosphate-buffered solution.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1 mg/ml
<b>Storage &amp; Handling</b>	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.
<b>Application</b>	<a href="#">IHC-P - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration of 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
<b>RRID</b>	AB_2734565 (BioLegend Cat. No. 811602) AB_2564759 (BioLegend Cat. No. 811601)

### Antigen Details

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<b>Biology Area</b>	Cell Biology, Neurodegeneration, Neuroscience, Protein Trafficking and Clearance
<b>Gene ID</b>	<a href="#">348</a>

## Related Protocols

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[Sandwich ELISA Protocol](#)

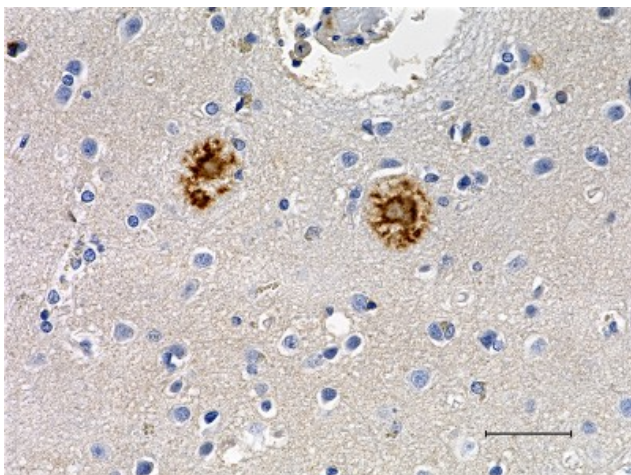
## Other Formats

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Purified anti-Apo E4

## Product Data

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IHC staining of purified anti-Apo E4 antibody (clone 5B5/ApoE4) 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 µg/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 µm

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