ApoE4 (4E4) Mouse mAb



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Mouse IgG1	UniProt ID: #P02649	Entrez-Gene Id: 348	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		1:1000			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensi		ApoE4 (4E4) Mouse mAb recognizes endogenous levels of total ApoE4 protein. This antibody does not cross-react with ApoE2 or ApoE3.					
Source / Purification	• • •	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg130 of human ApoE4 protein.					
Background	Apolipoproteins are plasma lipoproteins that function as transporters of lipids and characteristical circulatory system. Chylomicrons are a fundamental class of apolipoproteins contain lipoproteins (VLDL), intermediate-density lipoproteins (IDL), low-density lipoproteins density lipoproteins (HDL) (1,2). Human ApoE has three isoforms: ApoE2, ApoE3, and ApoE4. These three isoforms combination of cysteine and arginine residues located at positions 130 and 176. The contains arginine at both locations. Research studies have linked ApoE4 function to synaptogenesis, and neurodegenerative diseases (3). ApoE4 is produced in the live is widely expressed in other tissues, such as the lung, spleen, and ovary. Investigating					g very low-density .DL), and high- ffer in the .poE4 isoform euronal plasticity, and brain, although it	

deposition. The increase in Aß suggests a role for ApoE4 in the impairment of amyloid clearance (5). 1. Kwiterovich, P.O. (2000) Am J Cardiol 86, 5L-10L. **Background References** 2. Hussain, M.M. (2000) Atherosclerosis 148, 1-15.

3. Raber, J. et al. Neurobiol Aging 25, 641-50.

4. Corder, E.H. et al. (1993) Science 261, 921-3.

5. Holtzman, D.M. et al. (2000) Proc Natl Acad Sci U S A 97, 2892-7.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting **Applications Key**

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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the ApoE4 allele as a genetic risk factor for Alzheimer's disease (AD), accounting for 50-60% of the genetic variation in the disease (4). Research studies indicate that patients expressing ApoE4 have a reduced capacity for synaptic plasticity, an earlier age of onset of AD, and an increase in amyloid-beta (AB)

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