3366 Store at -20C

ApoE (pan) (D7I9N) Rabbit mAb



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Applications: VB, IP, IHC-P, IF-F, IF- IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit IgG	UniProt ID: #P02649	Entrez-Gene Id 348	
Product Usage Information	Ap	pplication			Dilution		
	We	Western Blotting			1:1000		
	Im	Immunoprecipitation			1:50		
	lm	munohistochemistry	(Paraffin)		1:250 - 1:1000		
	Im	munofluorescence (Frozen)		1:800 - 1:3200		
	Im	Immunofluorescence (Immunocytochemistry)			1:3200 - 1:6400		
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.					
	For	For a carrier-free (BSA and azide free) version of this product see product #10197.					
Specificity / Sensitiv		ApoE (pan) (D7I9N) Rabbit mAb recognizes endogenous levels of total ApoE protein. This antibody also recognizes overexpressed ApoE2, ApoE3 and ApoE4 proteins.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro285 of human ApoE protein.					
Background	circ lipo	Apolipoproteins are plasma lipoproteins that function as transporters of lipids and cholesterol in the circulatory system. Chylomicrons are a fundamental class of apolipoproteins containing very low-density lipoproteins (VLDL), intermediate-density lipoproteins (IDL), low-density lipoproteins (LDL), and high-density lipoproteins (HDL) (1,2).					
	con con syn is w the vari cap	Human ApoE has three isoforms: ApoE2, ApoE3, and ApoE4. These three isoforms differ in the combination of cysteine and arginine residues located at positions 130 and 176. The ApoE4 isoform contains arginine at both locations. Research studies have linked ApoE4 function to neuronal plasticity, synaptogenesis, and neurodegenerative diseases (3). ApoE4 is produced in the liver and brain, although it is widely expressed in other tissues, such as the lung, spleen, and ovary. Investigators have established 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 (A β) deposition. The increase in A β suggests a role for ApoE4 in the impairment of amyloid clearance (5).					
Background Refere	2. F 3. F 4. C	 Kwiterovich, P.O. (2000) Am J Cardiol 86, 5L-10L. Hussain, M.M. (2000) Atherosclerosis 148, 1-15. Raber, J. et al. Neurobiol Aging 25, 641-50. Corder, E.H. et al. (1993) Science 261, 921-3. Holtzman, D.M. et al. (2000) Proc Natl Acad Sci U S A 97, 2892-7. 					

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

ApoE (pan) (D7I9N) Rabbit mAb (#13366) Datasheet Without Images Cell Signaling Technology

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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