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Product datasheet for TA336538

Apolipoprotein E (APOE) Mouse Monoclonal Antibody [Clone ID: WUE-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	WUE-4
Applications:	FC, WB
Recommend Dilution:	WB: 2 ug/ml, ELISA: 1:100-1:2000, FC: 1 ug per million cells, IHC: 1:50-1:200, IP: 1:10-1:500
Reactivity:	Human, Mouse (Does not react with: Rat)
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Purified human ApoE [UniProt# P02649]
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	0.85 mg/ml
Purification:	Protein G purified
Predicted Protein Size:	36 kDa
Gene Name:	apolipoprotein E
Database Link:	NP_000032 Entrez Gene 11816 MouseEntrez Gene 25728 RatEntrez Gene 348 Human

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Background: ApoE (apolipoprotein E) is the protein constituent of cholesterol/triglyceride-rich plasma lipoproteins, and is a multifunctional glycosylated secretary protein found almost in all organs with high activity in hepatic tissues. ApoE expression is induced by cholesterol-rich diets and is enhanced in lipoproteins in humans with genetic disorder type III hyperlipoproteinemia (HLP) characterized by remnant lipoproteins accumulation in plasma and premature atherosclerosis. ApoE circulates in blood as a protein component of VLDLs, chylomicron remnants, a subclass of HDL etc, and in cerebrospinal fluid as well as CNS interstitial fluid on small particles and disks resembling HDLs. ApoE facilitates transport of cholesterol and other lipids, as well as the clearance of plasma lipoproteins by serving as a critical ligand for lipoprotein uptake by LDL receptors and related proteins. ApoE participates in lipids redistribution to cells (e.g. CNS) that require cholesterol and phospholipids for reparative processes. ApoE also involves in proliferation inhibition of smooth muscle cells/lymphocytes, antigen presentation, and cholesterol efflux stimulation from foam cell macrophages. Defects in APOE have been linked to HLPP3 (hyperlipoproteinemia type 3), AD2 (Alzheimer disease type 2), SBHD (sea-blue histiocyte disease), LPG (lipoprotein glomerulopathy), and certain autoimmune disorders including multiple sclerosis and psoriasis.

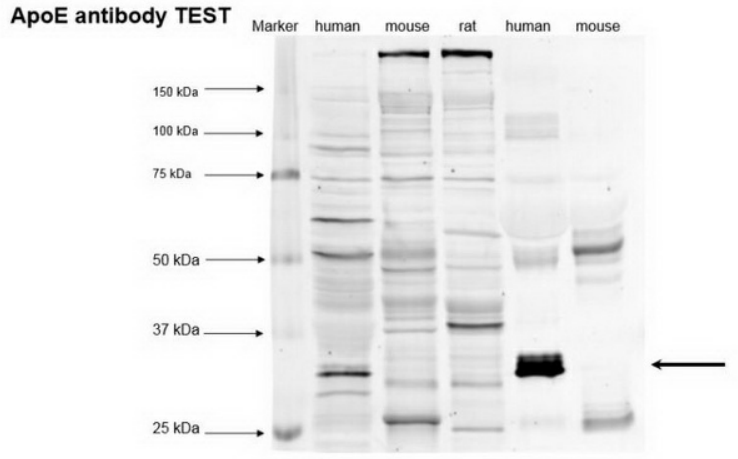
Synonyms: AD2; APO-E; LDLCQ5; LPG

Note: This ApoE antibody is useful for Western blot, ELISA, Immunohistochemistry and Immunoprecipitation. In Western blot a band is observed at ~36 kDa, representing the ApoE protein.

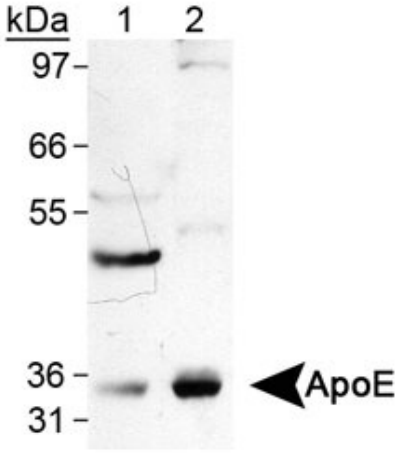
Protein Families: Adult stem cells, Druggable Genome, Secreted Protein, Stem cell - Pluripotency

Protein Pathways: Alzheimer's disease

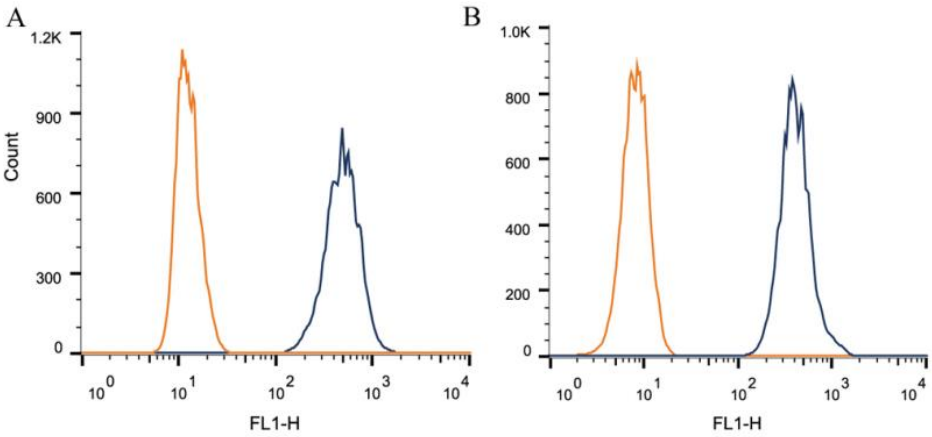
Product images:



Western Blot: ApoE Antibody (WUE-4) [TA336538] - 50 ug protein per lane for liver lysate and 0.5 ul of plasma at 9% SDS. Samples are loaded onto the gel as the following order: human liver lysate, mouse liver lysate, rat liver lysate, human plasma, and mo



Western Blot: ApoE Antibody (WUE-4) [TA336538] - Detection of ApoE in human tissue lysate using TA336538. Lane 1: liver Lane 2: brain



Flow Cytometry: ApoE Antibody (WUE-4) [TA336538] - Intracellular flow cytometric staining of 1 x 10^6 CHO (A) and HEK-293 (B) cells using ApoE antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.