



Anti-Human ApoE3

20170724BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P216
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hApoE3. Anti-Human ApoE3 specific antibody was purified by affinity chromatography employing immobilized hApoE3 matrix. *Cross Reactivity: human ApoE2, human ApoE4 in both western blot and sandwich ELISA

Target Background

Synonyms (Target):	APOE; AD2; LPG; LDLQC5
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ApoE is a 34 kDa protein component of serum chylomicrons, VLDL, and HDL particles. It mediates the binding, uptake, and catabolism of these particles through interactions with the ApoE receptor and LDL receptors in the liver and brain. ApoE is important in fatty acid homeostasis and memory formation. Polymorphisms encode three variants (ApoE2, 3, 4) which are differentially related to the development of atherosclerosis and neurodegenerative disorders. Mature human ApoE shares 71% amino acid sequence identity with mouse and rat ApoE.

Database References Target

Protein RefSeq:	NP_000032.1
Uniprot ID:	P02649
mRNA RefSeq:	NM_000041.2

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	highly pure (>98%) recombinant hApoE3
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Western Blot: To detect human ApoE3 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant human ApoE3 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.*

ELISA:

Sandwich: To detect human ApoE3 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with an appropriate secondary conjugated reagents as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant human ApoE3.*

***Cross Reactivity:** human ApoE2, human ApoE4 in both Western Blot and Sandwich ELISA.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!