

## ABfinity™ Apo E Recombinant Rabbit Monoclonal Antibody

Publication Part no. MAN0006825

Rev. 1.00

Catalog Number: 701241

Store at 2° to 8°C (short-term), or -20°C (long-term)

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 100 µg  
**Volume:** 200 µL

**Host/Class:** Rabbit IgG  
**Reactivity:** Human ApoE  
**Predicted Reactivity:** Mouse

### Product Description

Apo E (Apolipoprotein E) plays an important role in the metabolism of lipids in the plasma, and is also a constituent of various plasma lipoprotein-lipid particles. The protein is synthesized in liver, brain, spleen, and the kidney, and concentrations are high in interstitial fluids, where it plays a role in distributing cholesterol from cells where cholesterol is in excess to cells which require cholesterol. Apo E also plays an important role in the formation of very low density lipoprotein and chylomicrons. The Apo E gene is located on chromosome 19 at position 19q13.2.

### Product Specifications

**Immunogen:** Peptide corresponding to amino acids 240–251 of human ApoE  
**Alternate Names:** AD2, LPG  
**Apparent MW:** ~34 kDa  
**Gene ID:** 348  
**Protein Accession No.:** P02649  
**Sequence Identity:** Human  
**Sequence Homology:** Mouse, Rat, Monkey  
**Clone/PAD:** 16H22L18  
**Lot:** See product label

### Product Applications

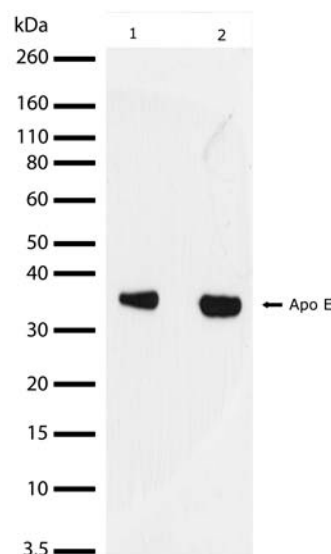
Application	Species	Test Material	Concentration
Immunocytochemistry	Human	HepG2 cells	1–3 µg/mL
Western blotting	Mouse and Rat	Ms.brain lysate & rat liver lysate	1–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 <sup>-4</sup> to 3 µg/ml

### Storage and Handling

Store the antibody at 2 to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

### Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.



**Figure 1** Western blot analysis of ABfinity™ Apo E Recombinant Rabbit Monoclonal Antibody (Cat. no. 701241).

Western blot analysis was performed on mouse brain (lane 1) and rat liver lysate (lane 2). Endogenous level of Apo E at ~34 kDa was detected using ABfinity™ Apo E Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

### Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Related Products

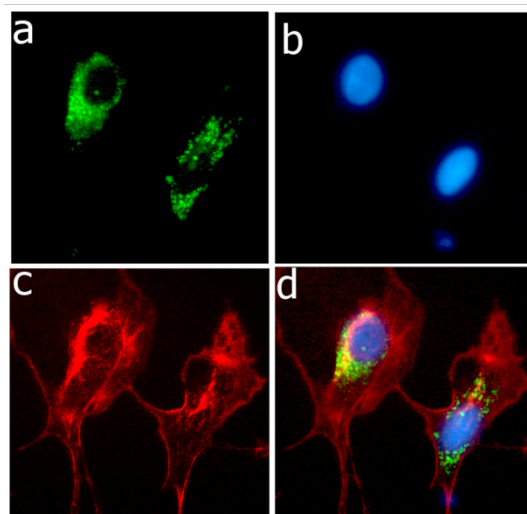
Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

### Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

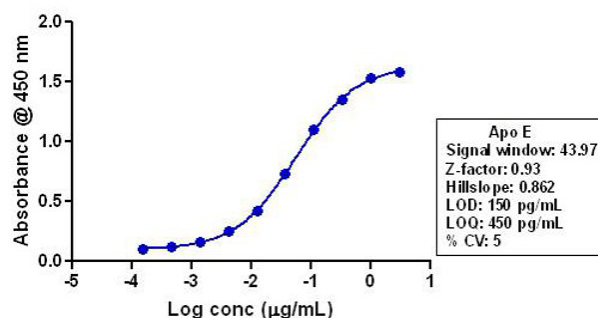
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**Figure 2** Immunocytochemistry analysis of ABfinity™ Apo E Recombinant Rabbit Monoclonal Antibody (Cat. no. 701241).

Immunocytochemistry analysis of HepG2 cells stained with ABfinity™ Apo E Recombinant Rabbit Monoclonal Antibody using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained HepG2 nuclei (blue). **c**: Actin stained with Alexa Fluor® 594 Phalloidin (red). **d**: Composite image of cells showing cytoplasmic localization of ApoE.



**Figure 3** Indirect ELISA of ABfinity™ ApoE Recombinant Rabbit Monoclonal Antibody (Cat. no. 701241).

Indirect ELISA was performed using various dilutions of ABfinity™ ApoE Recombinant Rabbit Monoclonal Antibody (Cat. no. 701241) to detect recombinant ApoE protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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