Data Sheet (Cat.No.TMAB-00133)

Anti-Apolipoprotein E/APOE3 Polyclonal Antibody

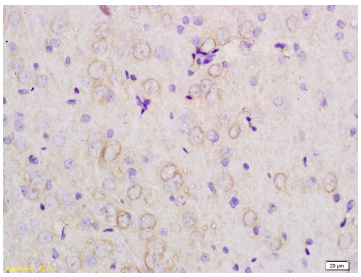
Product Details

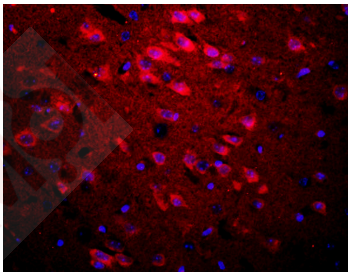
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow)
Molecular Weight:	Theoretical: 34 kDa. Actual: 35 kDa.
Purification:	Protein A purified

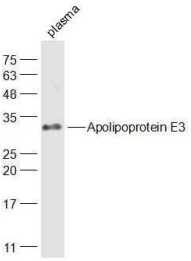
Applications

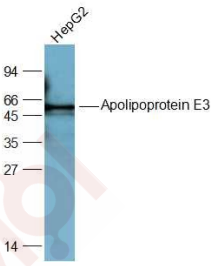
Verified Activity:

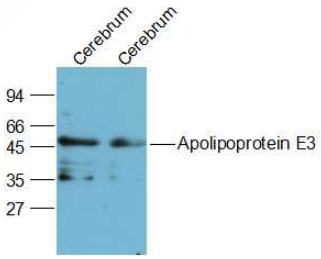
1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-APOE3 Polyclonal Antibody, Unconjugated (TMAB-00133) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
2. Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-APOE3 Polyclonal Antibody, Unconjugated (TMAB-00133) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C. DAPI (5 μg/ml,blue) was used to stain the cell nucleus.
3. Sample:
Plasma (Mouse) Lysate at 40 μg
Primary: Anti-Apolipoprotein E3 (TMAB-00133) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34 kDa
Observed band size: 34 kDa
4. Sample:
HepG2 (Human) Cell Lysate at 30 μg
Primary: Anti-Apolipoprotein E3 (TMAB-00133) at 1/2000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34 kDa
Observed band size: 54 kDa
5. Sample:
Cerebrum (Mouse) Lysate at 40 μg
Cerebrum (Rat) Lysate at 40 μg
Primary: Anti-Apolipoprotein E3 (TMAB-00133) at 1/2000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34 kDa
Observed band size: 49 kDa
6. Sample:
Lane 1: Mouse Cerebellum Lysates
Lane 2: Mouse Brain Lysates
Primary: Anti-Apolipoprotein E3 (TMAB-00133) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34 kDa
Observed band size: 35 kDa

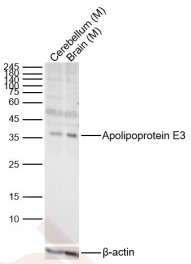












Application: IF,IHC-Fr,IHC-P,WB

Recommended: WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human APOE3
Antigen Species:	Human
Gene ID:	348
Uniprot ID:	P02649
Synonyms:	Apolipoprotein E;apolipo E;APOE3;Apo-E;APOE
Biology Area:	Metabolism of lipids and lipoproteins,Lipid transport,Cholesterol Metabolism, Lipoproteins/Apolipoproteins,Endoderm,Cholesterol Metabolism,Lipid metabolism,Heart disease,Neurodegenerative disease,Alzheimer's disease,Neurodegenerative disease,Lipid metabolism,Endoderm

Research Background

Apolipoprotein E, a main apoprotein of the chylomicron, binds to a specific receptor on liver cells and peripheral cells and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. ApoE exists in three major isoforms; E2, E3, and E4, which differ from one another by a single amino-acid substitution. Compared with E3 and E4, E2 exhibits the lowest receptor binding affinity. Defects in ApoE are a cause of hyperlipoproteinemia type III due to increased plasma cholesterol and triglycerides levels which are the consequence of impaired clearance of chylomicron and VLDL remnants.

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