

For Research Use Only

ApoE Polyclonal antibody

Catalog Number: 31454-1-AP



Basic Information

Catalog Number: 31454-1-AP	GenBank Accession Number: NM_001305819.1	Purification Method: Antigen affinity Purification
Concentration: 300 ug/ml	GeneID (NCBI): 11816	Recommended Dilutions: WB 1:5000-1:50000
Source: Rabbit	UNIPROT ID: P08226	IHC 1:300-1:1200
Isotype: IgG	Full Name: Apolipoprotein E	IF/ICC 1:200-1:800
Immunogen Catalog Number: EG1093	Calculated MW: 36kDa	
	Observed MW: 31~36 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : U-251 cells, BV-2 cells, C2C12 cells, mouse brain tissue, mouse skeletal muscle tissue, mouse cerebellum tissue, rat brain tissue, pig cerebellum tissue

IHC : rat cerebellum tissue,

IF/ICC : HepG2 cells,

Background Information

Apolipoprotein E (ApoE) is a core component of plasma lipoproteins that participates in diverse biological processes, including plasma lipoprotein metabolism, intracellular cholesterol utilization, cell growth, immunoregulation, and neuronal growth and repair (PMID: 17854398). Mouse apoE, like apoE4, contains the equivalent of Arg-112 and Glu-255, but lacks the critical Arg-61 equivalent (it contains Thr-61). Thus, mouse apoE does not display apoE4 domain interaction (PMID: 11553788).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

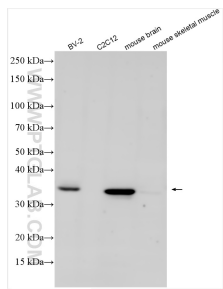
T: 4006900926

E: Proteintech-CN@ptglab.com

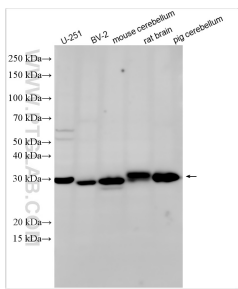
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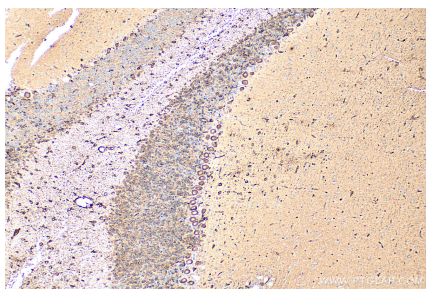
Selected Validation Data



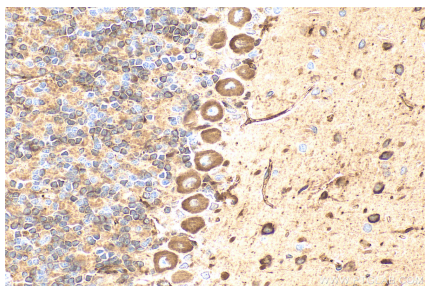
Various lysates were subjected to SDS PAGE followed by western blot with 31454-1-AP (Apoe antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



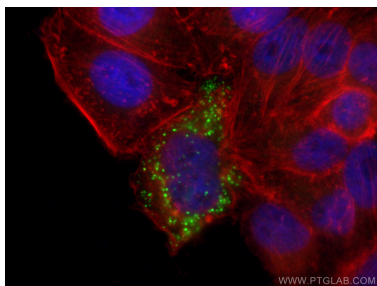
Various lysates were subjected to SDS PAGE followed by western blot with 31454-1-AP (Apoe antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 31454-1-AP (Apoe antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 31454-1-AP (Apoe antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Apoe antibody (31454-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).