For Research Use Only

ACADS Polyclonal antibody

Catalog Number:16623-1-AP Featured Product 28 Publications

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Basic Information

Catalog Number:
16623-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9922

GenBank Accession Number:
BC025963

GeneID (NCBI):
35

UNIPROT ID:
P16219

Full Name:
acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain

Calculated MW:
412 aa, 44 kDa

Observed MW:
42 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:20-1:200

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat, monkey

Cited Species:
human, mouse, rat

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 : mouse kidney tissue, COS-7 cells, mouse liver tissue, rat kidney tissue, rat liver tissue

IP : HEK-293 cells,

IHC : human kidney tissue, human heart tissue

Background Information

ACADS is also named as SCAD(Short-chain specific acyl-CoA dehydrogenase, mitochondrial) and belongs to the acyl-CoA dehydrogenase family. It is a tetrameric mitochondrial flavoprotein. It is synthesized as a 44 kDa precursor, transported into mitochondria, and proteolytically processed to its 41 kDa mature form. Acyl-CoA dehydrogenases (ACADs) are a family of flavoproteins that are involved in the β -oxidation of the fatty acyl-CoA derivatives.

Notable Publications

Author	Pubmed ID	Journal	Application
De Huang	25242319	Cell Rep	WB
Diyu Chen	31652420	Aging (Albany NY)	WB
Deshi Dong	25310017	Food Funct	WB

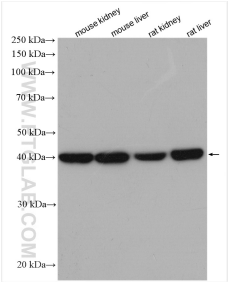
Storage

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

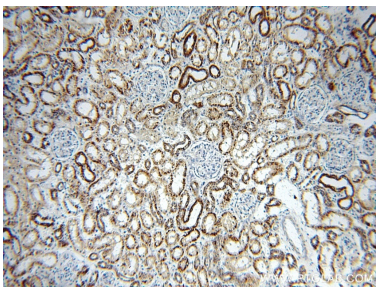
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

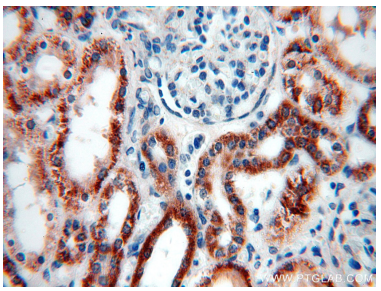
Selected Validation Data



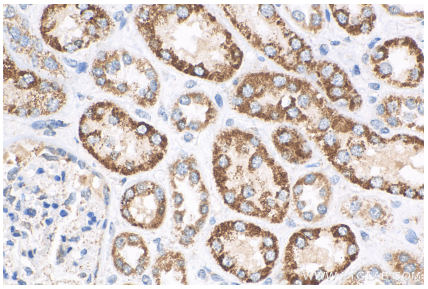
Various lysates were subjected to SDS PAGE followed by western blot with 16623-1-AP (ACADS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



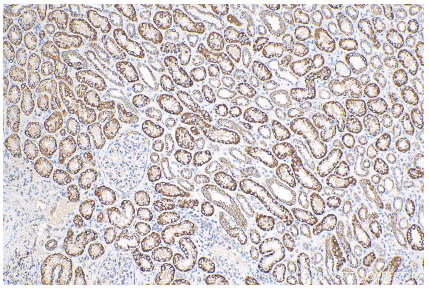
Immunohistochemical analysis of paraffin-embedded human kidney using 16623-1-AP (ACADS antibody) at dilution of 1:100 (under 10x lens).



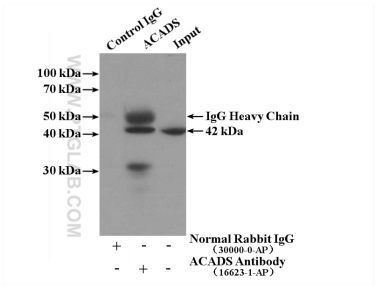
Immunohistochemical analysis of paraffin-embedded human kidney using 16623-1-AP (ACADS antibody) at dilution of 1:100 (under 40x lens).



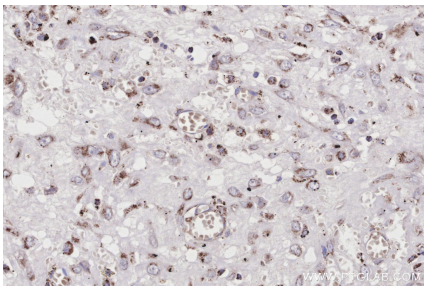
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16623-1-AP (ACADS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



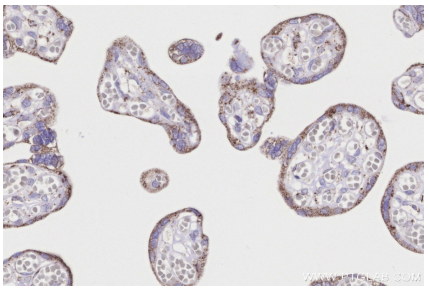
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16623-1-AP (ACADS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ACADS (IP:16623-1-AP, 4ug; Detection:16623-1-AP 1:500) with HEK-293 cells lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16623-1-AP (ACADS antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16623-1-AP (ACADS antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).