

For Research Use Only

# FLAD1 Polyclonal antibody

Catalog Number: 14118-1-AP

Featured Product

1 Publications



## Basic Information

Catalog Number:

14118-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5267

GenBank Accession Number:

BC011378

GeneID (NCBI):

80308

UNIPROT ID:

Q8NFF5

Full Name:

FAD1 flavin adenine dinucleotide synthetase homolog (S. cerevisiae)

Calculated MW:

446 aa, 49 kDa

Observed MW:

50 kDa, 65-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, ColP

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : K-562 cells, HEK-293 cells, HepG2 cells, rat liver tissue, L02 cells, mouse liver tissue

IF/ICC : HepG2 cells,

## Background Information

FLAD1 is a protein-coding gene for flavin adenine dinucleotide synthetase (FADS), a key enzyme in the FAD biosynthesis process which contains an N-terminal molybdopterin-binding (MPTb) domain and a C-terminal domain (FADS domain) (PMID: 32714079). Alternative splicing of the human FLAD1 gene generates different isoforms of the enzyme FAD synthase. ~60 and ~50 kDa bands correspond to the expected mitochondrial FADS1 and cytosolic FADS2 proteins, respectively (PMID: 29316637).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongwei Chu	34932315	Anal Chem	WB, ColP

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

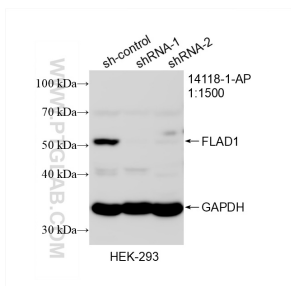
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

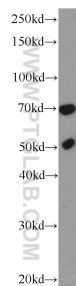
W: [ptgcn.com](http://ptgcn.com)

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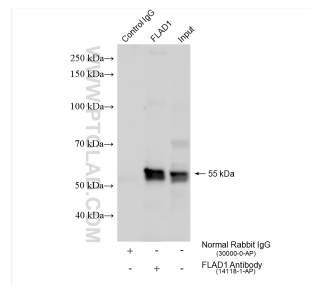
## Selected Validation Data



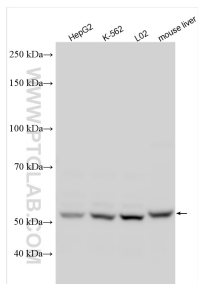
WB result of FLAD1 antibody (14118-1-AP; 1:1500; incubated at room temperature for 1.5 hours) with sh-Control and sh-FLAD1 transfected HEK-293 cells.



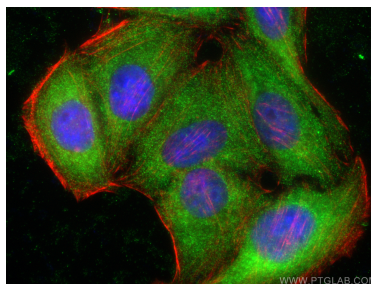
K-562 cells were subjected to SDS PAGE followed by western blot with 14118-1-AP (FLAD1 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-FLAD1 (IP:14118-1-AP, 4ug;  
Detection:14118-1-AP 1:1000) with K-562 cells  
lysate 2400 ug.



Various lysates were subjected to SDS PAGE followed by western blot with 14118-1-AP (FLAD1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FLAD1 antibody (14118-1-AP) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).