For Research Use Only

HADHA Polyclonal antibody

Catalog Number:10758-1-AP Featured Product 23 Publications

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Basic Information

Catalog Number:
10758-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1211

GenBank Accession Number:
BC009235

GeneID (NCBI):
3030

UNIPROT ID:
P40939

Full Name:
hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit

Calculated MW:
83 kDa

Observed MW:
70-79 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

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

Cited Applications:
WB,IP,IHC,IF,CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, 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 : Jurkat cells, HEK-293 cells, HeLa cells, mouse liver tissue, rat liver tissue, NIH/3T3 cells, mouse kidney tissue, rat kidney tissue

IP : HeLa cells,

IHC : human heart tissue, human ovary tissue, human colon cancer tissue, mouse heart tissue

IF : HeLa cells, HepG2 cells

Background Information

HADHA(Trifunctional enzyme subunit alpha, mitochondrial) is also named as HADH,78 kDa gastrin-binding protein.It belongs to the enoyl-CoA hydratase/isomerase family in the N-terminal section and the 3-hydroxyacyl-CoA dehydrogenase family in the central section.It harbors the 3-hydroxyacyl-CoA dehydrogenase and enoyl-CoA hydratase activities.Defects in HADHA are a cause of trifunctional protein deficiency (TFP deficiency) and long-chain 3-hydroxyl-CoA dehydrogenase deficiency (LCHAD deficiency) and maternal acute fatty liver of pregnancy (AFLP).

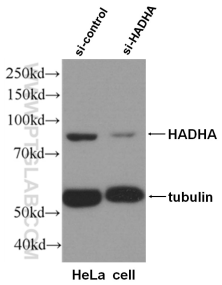
Notable Publications

Author	Pubmed ID	Journal	Application
Matthew Kerr	32879143	JCI Insight	CoIP
Dharendra Thapa	30323061	J Biol Chem	WB
Jingjing Zhang	29207074	Mol Med Rep	WB

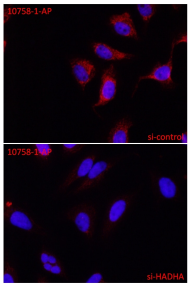
Storage

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

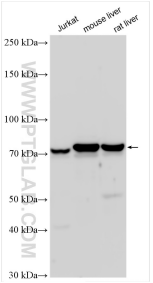
Selected Validation Data



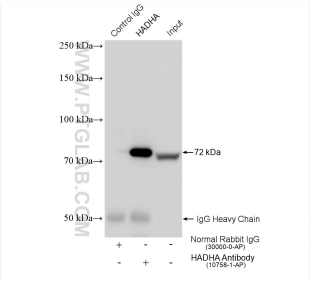
WB result of HADHA antibody (10758-1-AP, 1:4000) with si-control and si-HADHA transfected HeLa cells.



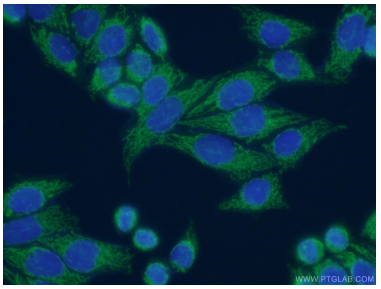
IF result of HADHA antibody (10758-1-AP, 1:50) with si-control and si-HADHA transfected HeLa cells.



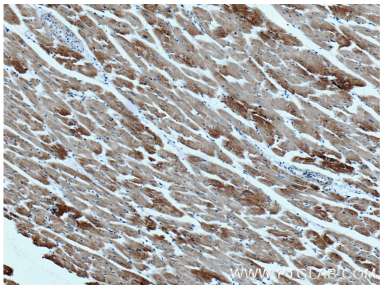
Various lysates were subjected to SDS PAGE followed by western blot with 10758-1-AP (HADHA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



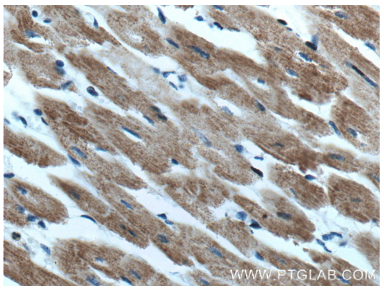
IP result of anti-HADHA (IP:10758-1-AP, 4ug; Detection:10758-1-AP 1:10000) with HeLa cells lysate 1080 ug.



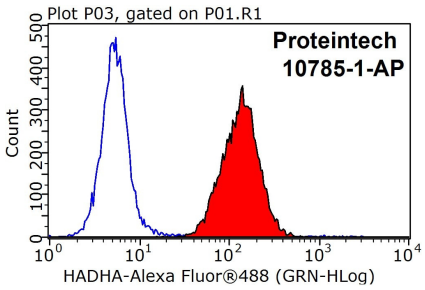
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10758-1-AP (HADHA antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10758-1-AP (HADHA antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10758-1-AP (HADHA antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were stained with 0.2ug HADHA antibody (10758-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.