For Research Use Only

FIS1 Polyclonal antibody

Catalog Number:10956-1-AP Featured Product 538 Publications

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Basic Information

Catalog Number:
10956-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1409

GenBank Accession Number:
BC009428

GeneID (NCBI):
51024

UNIPROT ID:
Q9Y3D6

Full Name:
fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae)

Calculated MW:
17 kDa

Observed MW:
17 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:14000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:100-1:800
IF/ICC: 1:50-1:500

Applications

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

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

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse, rat, pig, monkey, chicken, zebrafish, hamster, goat

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 : HEK-293 cells, HeLa cells, mouse brain tissue, mouse heart tissue, pig brain tissue, rat brain tissue, rat heart tissue, HepG2 cells, Jurkat cells, PC-12 cells, mouse spleen tissue, rat spleen tissue

IP : HeLa cells,

IHC : rat brain tissue, human brain tissue

IF/ICC : HepG2 cells, Hepa1-6 cells, HeLa cells

Background Information

Fis1 (fission 1) is an integral mitochondrial outer membrane protein that participates in mitochondrial fission by interacting with dynamin-related protein 1 (Drp1). Excessive mitochondrial fission is associated with the pathology of a number of neurodegenerative or neurodevelopmental diseases. Increased expression of Fis1 has been found in Huntington's disease (HD)-affected brain, Alzheimer's disease (AD) patients, and autism spectrum disorder. This antibody was raised against the full-length of human Fis1 protein, and recognizes endogenous Fis1 protein in various lysates. (PMID: 21257639, 21459773, 23333625)

Notable Publications

Author	Pubmed ID	Journal	Application
Xudong Yao	30273654	Pharmacol Res	WB
Maria Manczak	27677309	Hum Mol Genet	IF
Na Jiang	32975326	Cell Prolif	WB,IHC

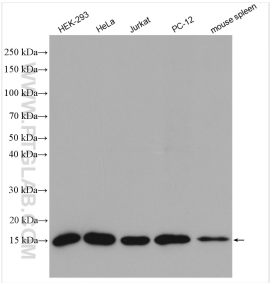
Storage

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

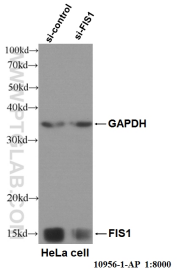
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

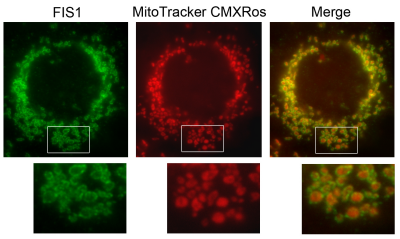
Selected Validation Data



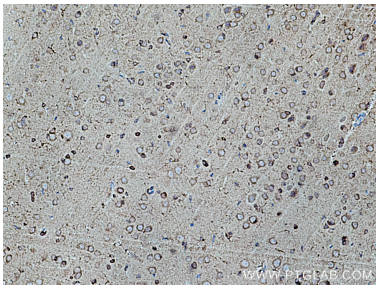
Various lysates were subjected to SDS PAGE followed by western blot with 10956-1-AP (FIS1 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



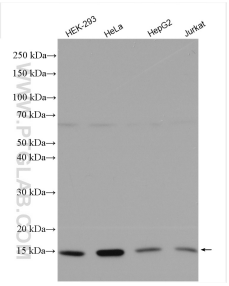
WB result of FIS1 antibody (10956-1-AP, 1:8,000) with si-Control and si-FIS1 transfected HeLa cells.



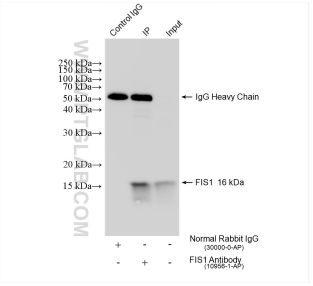
IF result of anti-FIS1(10956-1-AP,1:100) with Hepa1-6 cell by Dr. Steven Eugene Smith. Mitochondrion outer membrane (Green) Stain.



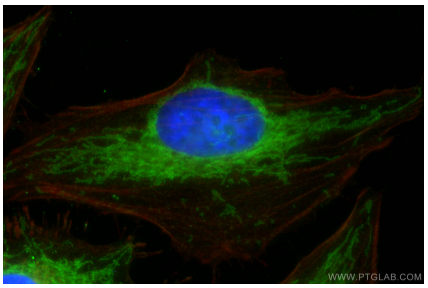
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 10956-1-AP (FIS1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



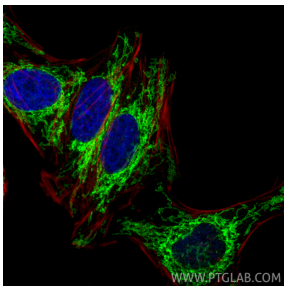
Various lysates were subjected to SDS PAGE followed by western blot with 10956-1-AP (FIS1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-FIS1 (IP:10956-1-AP, 4ug; Detection:10956-1-AP 1:10000) with HeLa cells lysate 1120 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using FIS1 antibody (10956-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FIS1 antibody (10956-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).