For Research Use Only

FIS1 Polyclonal antibody

Catalog Number:10956-1-AP Featured Product 271 Publications

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Basic Information

Catalog Number:
10956-1-AP

Size:
150ul , Concentration: 700 μg/ml by Nanodrop;

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 1:50-1:500
IF 1:50-1:200

Applications

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

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

Species Specificity:
human, mouse, rat, pig

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

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, mouse brain tissue, rat brain tissue, mouse heart tissue, SH-SY5Y cells, pig brain tissue, HeLa cells, rat heart tissue, Jurkat cells, mouse spleen tissue, rat spleen tissue, HepG2 cells, PC-12 cells

IP : HeLa cells,

IHC : rat brain tissue, human brain tissue

IF : Hepa1-6 cells, HepG2 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

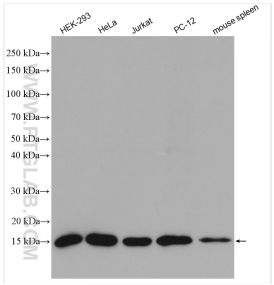
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

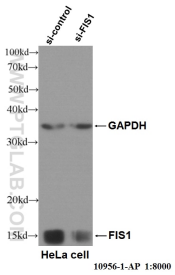
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

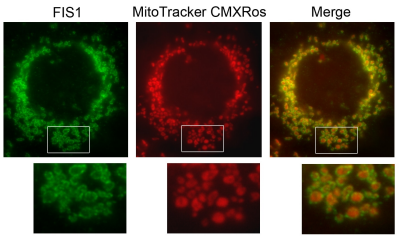
Selected Validation Data



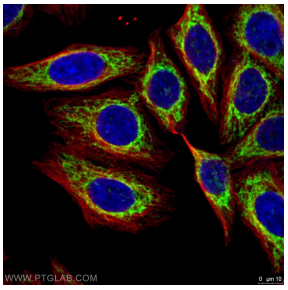
Various lysates were subjected to SDS PAGE followed by western blot with 10956-1-AP (FIS1 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



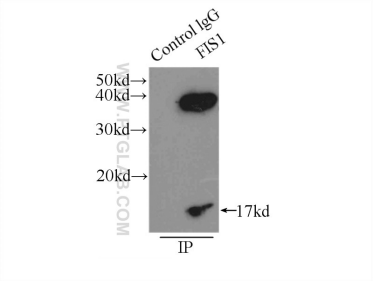
WB result of FIS1 antibody (10956-1-AP, 1:8,000) with si-Control and si-FIS1 transfected HeLa cells.



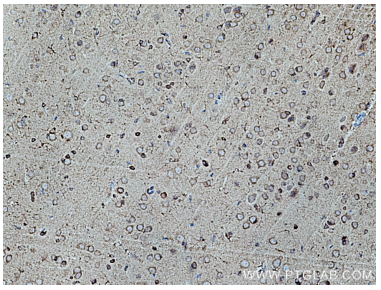
IF result of anti-FIS1(10956-1-AP,1:100) with Hepa1-6 cell by Dr. Steven Eugene Smith. Mitochondrion outer membrane (Green) Stain.



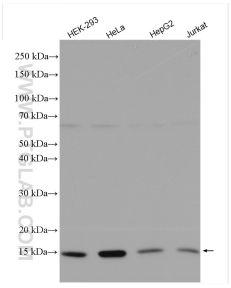
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10956-1-AP (FIS1 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-FIS1 (IP:10956-1-AP, 3ug; Detection:10956-1-AP 1:500) with HeLa cells lysate 3000ug.



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.