

For Research Use Only

FIS1 Recombinant antibody

Catalog Number: 82248-1-RR



Basic Information

Catalog Number: 82248-1-RR	GenBank Accession Number: BC009428	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 51024	CloneNo.: 6N15
Source: Rabbit	UNIPROT ID: Q9Y3D6	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae)	IHC 1:50-1:500 IF/ICC 1:500-1:2000
Immunogen Catalog Number: AG1409	Calculated MW: 17 kDa Observed MW: 15 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : LNCaP cells, HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, NIH/3T3 cells, HSC-T6 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IP : HeLa cells,
	IHC : human prostate cancer tissue, rat brain tissue
	IF/ICC : 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. (PMID: 21257639, 21459773, 23333625)

Storage

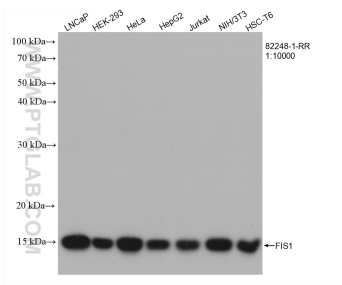
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

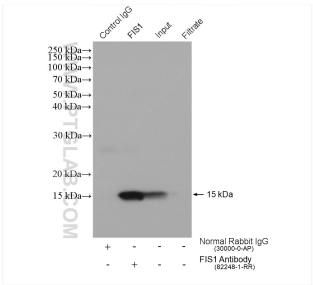
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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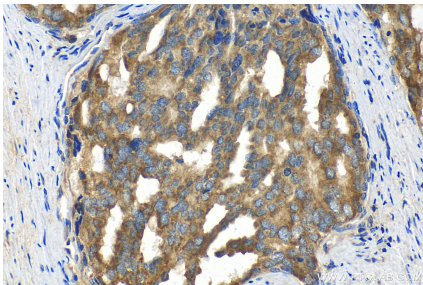
Selected Validation Data



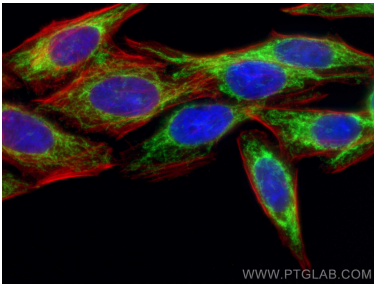
Various lysates were subjected to SDS PAGE followed by western blot with 82248-1-RR (FIS1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



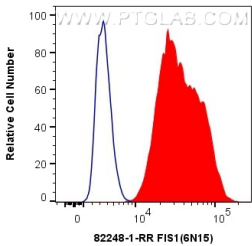
IP result of anti-FIS1 (IP:82248-1-RR, 4ug; Detection:82248-1-RR 1:5000) with HeLa cells lysate 1720 ug.



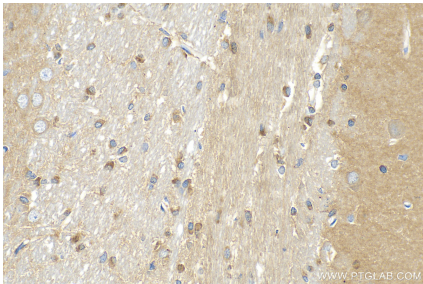
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 82248-1-RR (FIS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



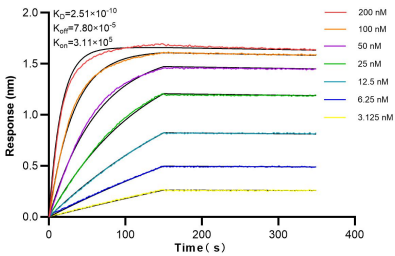
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FIS1 antibody (82248-1-RR, Clone: 6N15) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human FIS1 (82248-1-RR, Clone:6N15) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82248-1-RR (FIS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82248-1-RR against Human FIS1 were performed. The affinity constant is 0.251 nM.