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FIS1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant FIS1.
Catalog # AT2052a

Product Information

Application	WB, IHC, E
Primary Accession	Q9Y3D6
Other Accession	BC003540
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	1G9
Calculated MW	16938

Additional Information

Gene ID	51024
Other Names	Mitochondrial fission 1 protein, FIS1 homolog, hFis1, Tetratricopeptide repeat protein 11, TPR repeat protein 11, FIS1, TTC11
Target/Specificity	FIS1 (AAH03540.1, 1 a.a. ~ 152 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FIS1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

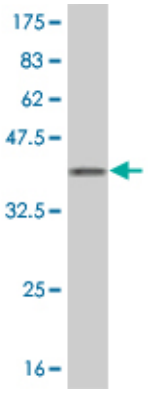
The balance between fission and fusion regulates the morphology of mitochondria. TTC11 is a component of a mitochondrial complex that promotes mitochondrial fission (James et al., 2003 [PubMed 12783892]).

References

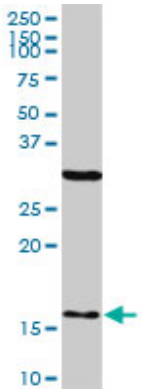
Specific mitochondrial calcium overload induces mitochondrial fission in prostate cancer cells. Kaddour-Djebbar I, et al. Int J Oncol, 2010 Jun. PMID 20428767. Decreased expression of Drp1 and Fis1 mediates mitochondrial elongation in senescent cells and enhances resistance to oxidative stress through PINK1. Mai S, et al. J Cell Sci, 2010 Mar 15. PMID 20179104. Identification and characterization of unique

proline-rich peptides binding to the mitochondrial fission protein hFis1. Serasinghe MN, et al. J Biol Chem, 2010 Jan 1. PMID 19864424. The mitochondrial outer membrane protein hFis1 regulates mitochondrial morphology and fission through self-interaction. Serasinghe MN, et al. Exp Cell Res, 2008 Nov 15. PMID 18845145. Selective actions of mitochondrial fission/fusion genes on metabolism-secretion coupling in insulin-releasing cells. Park KS, et al. J Biol Chem, 2008 Nov 28. PMID 18832378.

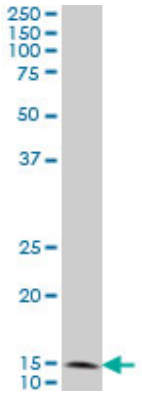
Images



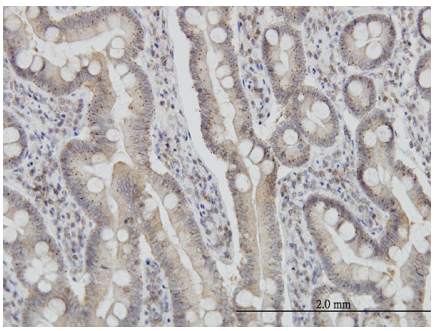
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (42.46 KDa) .



FIS1 monoclonal antibody (M01), clone 1G9. Western Blot analysis of FIS1 expression in human liver.

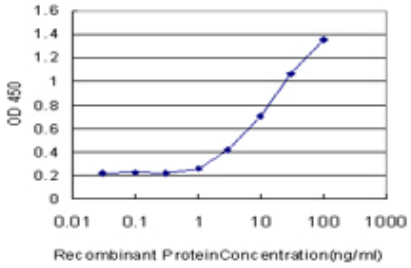


FIS1 monoclonal antibody (M01), clone 1G9 Western Blot analysis of FIS1 expression in A-431 ((Cat # AT2052a)



Immunoperoxidase of monoclonal antibody to FIS1 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]

Detection limit for recombinant GST tagged FIS1 is



approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.