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FIS1 Rabbit pAb

Catalog # AP99059

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y3D6
Other Accession	Q9Y3D6
Reactivity	Rat, Human
Predicted	Pig, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16938
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FIS1
Epitope Specificity	55-152/152
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FIS1 family. Contains 1 TPR repeat.
SUBUNIT	Interacts with DNM1L/DLP1 through the TPR region. Interacts with MARCH5. Interacts with MID51.
Post-translational modifications	Ubiquitinated by MARCH5.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	51024
Other Names	CGI-135; TTC11; 2010003O14Rik; FIS1_HUMAN; FIS1; FIS1 homolog (hFis1); Tetratricopeptide repeat protein 11 (TPR repeat protein 11); FIS1_MOUSE; FIS1 homolog; FIS1_RAT; FIS1 homolog (rFis1); fission, mitochondrial 1; tetratricopeptide repeat domain 11; fission 1 (mitochondrial outer membrane) homolog (yeast); fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae); CGI-135 protein; mitochondrial fission molecule
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FIS1
Synonyms	TTC11
Function	Involved in the fragmentation of the mitochondrial network and its perinuclear clustering (PubMed:12783892, PubMed:12861026, PubMed:14996942, PubMed:23283981). Plays a minor role in the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface and mitochondrial fission (PubMed:12861026, PubMed:16118244, PubMed:23283981, PubMed:23530241, PubMed:24196833). May not be essential for the assembly of functional fission complexes and the subsequent membrane scission event (PubMed:23530241, PubMed:24196833). Also mediates peroxisomal fission (PubMed:16107562). May act when the products of fission are directed toward mitochondrial homeostasis, mitophagy, or apoptosis (PubMed:24196833). Can induce cytochrome c release from the mitochondrion to the cytosol, ultimately leading to apoptosis (PubMed:12783892).
Cellular Location	Mitochondrion outer membrane; Single-pass membrane protein. Peroxisome membrane; Single-pass membrane protein

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