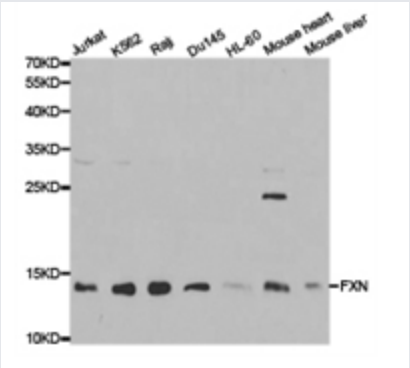
FXN Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	FXN, Antibody
Full Product Name	FXN Antibody
Product Gene Name	anti-FXN antibody
Product Synonym Names	CyaY; FA; FARR; FRDA; MGC57199; X25
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Store at-20 degree C or-80 degree C. Avoid freeze/thaw cycles.
Molecular Weight	23kDa
OMIM	229300
3D Structure	ModBase 3D Structure for Q16595
Immunogen	Recombinant protein of human FXN
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-FXN antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FXN antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-FXN antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-FXN antibody	FXN, also named as FRDA, X25, m81-FXN, d-FXN, m78-FXN and i-FXN, belongs to the frataxin family. It promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by delivering Fe2+ to proteins involved in these pathways. FXN may play a role in the protection against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe2+ to Fe3+; the oligomeric form but not the monomeric form has in vitro ferroxidase activity. FXN is cleaved to be 4 chains. The mature form of FXN is 14kd or 18kd.
Other Notes	Small volumes of anti-FXN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FXN purchase	MBS8502498 is an antibody targeting FXN. Also known as FXN Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Testing Data of anti-FXN antibody
Western blot analysis of extracts of various celllines, using FXN antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FXN. It may not necessarily be applicable to this product.

NCBI GI #	31077081
NCBI GeneID	2395
NCBI Accession #	NP_000135.2
UniProt Primary Accession #	Q16595
UniProt Secondary Accession #	O15545; O95656; Q15294; Q5VZ01; A8MXJ6; C9JJ89
UniProt Related Accession #	Q16595
GenBank Nucleotide #	NM_000144.4
NCBI Official Full Name	frataxin, mitochondrial isoform 1 preproprotein
NCBI Official Synonym Full Names	frataxin
NCBI Official Symbol	FXN
NCBI Official Synonym Symbols	FA; X25; CyaY; FARR; FRDA
UniProt Protein Name	Frataxin, mitochondrial
UniProt Synonym Protein Names	Friedreich ataxia protein; Fxn
Protein Family	Frataxin
UniProt Gene Name	FXN
UniProt Synonym Gene Names	FRDA; X25; Fxn; i-FXN
NCBI Protein Information	frataxin, mitochondrial
NCBI Summary for FXN	This nuclear gene encodes a mitochondrial protein which belongs to the FRATAXIN family. The protein functions in regulating mitochondrial iron transport and respiration. The expansion of intronic trinucleotide repeat GAA from 8-33 repeats to >90 repeats results in Friedreich ataxia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]
UniProt Comments for FXN	Promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by delivering Fe2+ to proteins involved in these pathways. May play a role in the protection against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe2+ to Fe3+; the oligomeric form but not the monomeric form has in vitro ferroxidase activity. May be able to store large amounts of iron in the form of a ferrihydrite mineral by oligomerization; however, the physiological relevance is unsure as reports are conflicting and the function has only been shown using heterologous overexpression systems. Modulates the RNA-binding activity of ACO1.
Research Articles on FXN	**1.** Knockdown of frataxin by > 70% in human hepatoma HepG2 cells caused a 20% reduction in secreted ApoA-I

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