

Mouse Frataxin Monoclonal Antibody | anti-FXN antibody

Frataxin (Marker of Friedreich Ataxia)

CATALOG # AAA214743	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Frataxin; Monoclonal Antibody; Frataxin (Marker of Friedreich Ataxia); CyaY; d-FXN; FARR; Frataxin mature form; Frataxin (81-210); FRDA; Friedreich ataxia protein; Fxn; i-FXN; m56-FXN; m78-FXN; m81-FXN; X25; anti-FXN antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	FXN/2124
Specificity	Frataxin is a nuclear-encoded mitochondrial protein implicated in Friedreich's ataxia (FRDA), a human autosomal recessive neurodegenerative disease. Lack of Frataxin causes iron to accumulate in the mitochondrial matrix suggesting that Frataxin is involved in mitochondrial iron homeostasis and possibly in iron transport. Frataxin has an alpha-beta fold consisting of two helices flanking an antiparallel beta sheet.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	171
Applicable Applications for anti-FXN antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment of human Frataxin (FXN) protein (around aa 57-210) (exact sequence is proprietary)
Positive Control	HepG2, HL-60 or HEK293 Cells. Pancreas and Liver
Cellular Localization	Cytoplasmic (Mitochondria)
Chromosome Location	9q21.11
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Frataxin Mouse Monoclonal Antibody (FXN/2124). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified Frataxin Mouse Monoclonal Antibody (FXN/2124). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Pancreas stained with Frataxin Mouse Monoclonal Antibody (FXN/2124).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Pancreas stained with Frataxin Mouse Monoclonal Antibody (FXN/2124).

ADDITIONAL INFORMATION

References	Suebpong Y, Jetsrisuparb A, Fucharoen S, Tripatara A. Frataxin expression in reticulocytes of non-splenectomized and splenectomized patients with HbE-beta-thalassaemia. Clin Biochem. 2016 Apr; 49(6):463-466.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31077081
NCBI GeneID	2395
NCBI Accession #	NP_000135.2
NCBI GenBank Nucleotide #	NM_000144.4
UniProt Accession #	Q16595; O15545; O95656; Q15294; Q5VZ01; A8MXJ6; C9JJ89
Molecular Weight	14kDa
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
NCBI Protein Information	frataxin, mitochondrial
UniProt Protein Name	Frataxin, mitochondrial
UniProt Gene Name	FXN
UniProt Synonym Gene Names	FRDA; X25; Fxn; i-FXN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.