

**FXN Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6409C**

**Specification**

**FXN Antibody (Center) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">Q16595</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	23135
Antigen Region	72-102

**FXN Antibody (Center) - Additional Information**

**Gene ID** 2395

**Other Names**

Frataxin, mitochondrial, Friedreich ataxia protein, Fxn, Frataxin intermediate form, i-FXN, Frataxin(56-210), m56-FXN, Frataxin(78-210), d-FXN, m78-FXN, Frataxin mature form, Frataxin(81-210), m81-FXN, FXN, FRDA, X25

**Target/Specificity**

This FXN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-102 amino acids from the Central region of human FXN.

**Dilution**

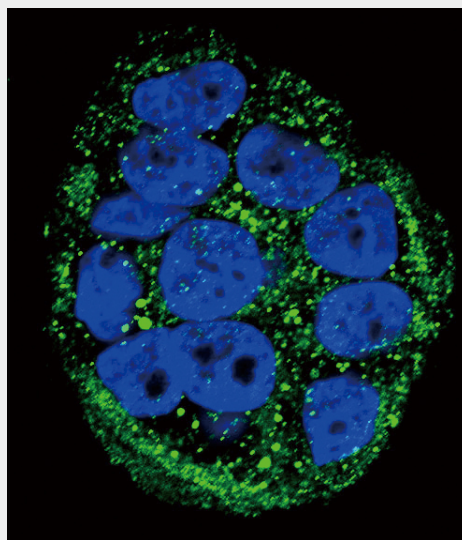
IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50

**Format**

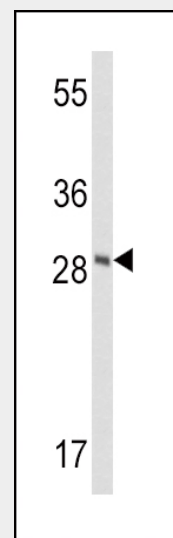
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



Confocal immunofluorescent analysis of FXN Antibody (Center)(Cat#AP6409c) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Western blot analysis of FXN Antibody (Center) (Cat.#AP6409c) in CEM cell line lysates (35ug/lane). FXN (arrow) was detected using the purified Pab.

**Precautions**

FXN Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**FXN Antibody (Center) - Protein Information**

**Name** FXN

**Synonyms** FRDA, X25

**Function**

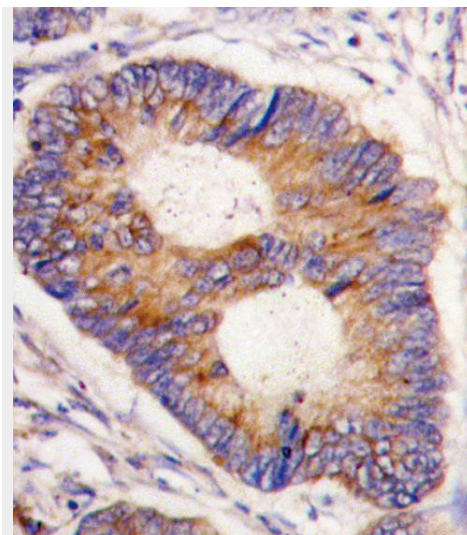
Promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by delivering Fe(2+) to proteins involved in these pathways. May play a role in the protection against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe(2+) to Fe(3+); the oligomeric form 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.

**Cellular Location**

Mitochondrion. Cytoplasm, cytosol.  
Note=PubMed:18725397 reports localization exclusively in mitochondria.

**Tissue Location**

Expressed in the heart, peripheral blood lymphocytes and dermal fibroblasts.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with FXN antibody (Center)(Cat.#AP6409c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**FXN Antibody (Center) - Background**

FXN is 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 results in Friedreich ataxia.

**FXN Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)