

**FXN Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19965A**

**Specification**

**FXN Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q16595</a>
Other Accession	<a href="#">NP_000135.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	23135
Antigen Region	36-64

**FXN Antibody (N-term) - 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 36-64 amino acids from the N-terminal region of human FXN.

**Dilution**

WB~~1:1000

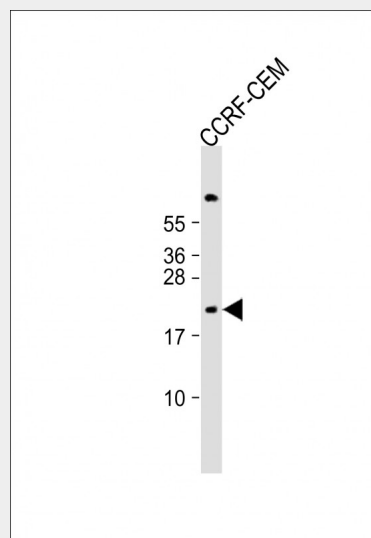
**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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.

**Precautions**



Anti-FXN Antibody (N-term) at 1:1000 dilution + CCRF-CEM whole cell lysate  
Lysates/proteins at 20 µg per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.  
Predicted band size : 23 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

**FXN Antibody (N-term) - Background**

This nuclear gene encodes a mitochondrial protein which belongs to FRATAXIN family. The protein functions in regulating mitochondrial iron transport and respiration. The expansion of intronic trinucleotide repeat GAA results in Friedreich ataxia. Alternative splicing results in multiple transcript variants.

**FXN Antibody (N-term) - References**

Tsai, C.L., et al. Biochemistry  
49(43):9132-9139(2010)  
Thierbach, R., et al. Biochem. J.  
432(1):165-172(2010)

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

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Marino, T.C., et al. Clin. Genet. 77(6):598-600(2010)  
Li, K., et al. PLoS ONE 5 (8), E12286 (2010) :

#### **FXN Antibody (N-term) - 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.

#### **FXN Antibody (N-term) - 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](#)