

For Research Use Only

# FXN Polyclonal antibody

Catalog Number: 14147-1-AP

Featured Product

15 Publications



## Basic Information

**Catalog Number:**

14147-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5316

**GenBank Accession Number:**

BC048097

**GeneID (NCBI):**

2395

**UNIPROT ID:**

Q16595

**Full Name:**

frataxin

**Calculated MW:**

23 kDa

**Observed MW:**

14 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:6000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB, IF, IHC, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse

**Positive Controls:**

WB : HCT 116 cells, Jurkat cells, K-562 cells, Raji cells, mouse liver tissue

## Background Information

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 Fe<sup>2+</sup> 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 Fe<sup>2+</sup> to Fe<sup>3+</sup>; the oligomeric form but not the monomeric form has in vitro ferroxidase activity. FXN is cleaved to be 4 chains. FXN is expressed in the cytoplasm as a 210 amino acid (AA) precursor protein (pFXN; 23 KDa) that is translocated into mitochondria where it is processed by two consecutive steps into iFXN (FXN 42-210; 19 KDa) and finally mFXN (81-210; 14.2 KDa), which is functional. (PMID: 26704351, PMID: 26671574)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jingjing Liu	33017621	Toxicology	WB
Daniel Fil	32586831	Dis Model Mech	WB
Yanjie Li	35708503	Hum Mol Genet	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

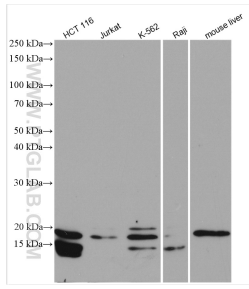
T: 4006900926

E: Proteintech-CN@ptglab.com

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14147-1-AP (FXN antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.