

For Research Use Only

FXN Polyclonal antibody

Catalog Number: 14147-1-AP **8 Publications**



Basic Information

Catalog Number: 14147-1-AP	GenBank Accession Number: BC048097	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2395	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	Full Name: frataxin	
Isotype: IgG	Calculated MW: 23 kDa	
Immunogen Catalog Number: AG5316	Observed MW: 14 kDa	

Applications

Tested Applications: WB,ELISA	Positive Controls: WB : MDA-MB-453s cells, K-562 cells
Cited Applications: IHC, WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	

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 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. 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
Hang Chen	35180677	Phytomedicine	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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



MDA-MB-453s cells were subjected to SDS PAGE followed by western blot with 14147-1-AP (FXN antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.