

For Research Use Only

# Frataxin Recombinant antibody

Catalog Number: 86195-4-RR



## Basic Information

Catalog Number:	86195-4-RR	GenBank Accession Number:	NM_000144.5	Purification Method:	Protein A purification
Concentration:	1000 µg/ml	GenID (NCBI):	2395	CloneNo.:	250761C8
Source:	Rabbit	UNIPROT ID:	Q16595-1	Recommended Dilutions:	WB: 1:1000-1:6000
Isotype:	IgG	Full Name:	frataxin		
Immunogen Catalog Number:	EG4622	Calculated MW:	23kDa		
		Observed MW:	14-23 kDa		

## Applications

Tested Applications:	Positive Controls:
WB, ELISA	WB: SW480 cells,
Species Specificity:	
human	

## Background Information

Frataxin (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)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

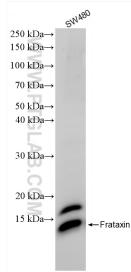
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## Selected Validation Data



SW480 cells were subjected to SDS PAGE followed by western blot with 86195-4-RR (Frataxin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.