

For Research Use Only

# Frataxin Recombinant antibody, PBS Only

Catalog Number: **86195-4-PBS**



## Basic Information

Catalog Number:	86195-4-PBS	GenBank Accession Number:	NM_000144.5	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	2395	CloneNo.:	250761C8
Source:	Rabbit	UNIPROT ID:	Q16595-1		
Isotype:	IgG	Full Name:	frataxin		
Immunogen Catalog Number:	EG4622	Calculated MW:	23kDa		
		Observed MW:	14-23 kDa		

## Applications

### Tested Applications:

WB, Indirect ELISA

### 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 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)

## Storage

### Storage:

Store at -80°C.

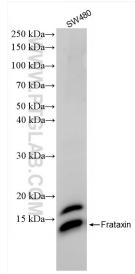
### Storage Buffer:

PBS only, pH7.3

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. This data was developed using the same antibody clone with 86195-4-PBS in a different storage buffer formulation.