

For Research Use Only

# Frataxin Recombinant antibody, PBS Only

Catalog Number: 86195-4-PBS



## Basic Information

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

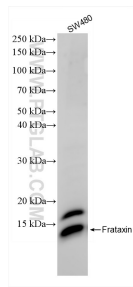
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

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)  
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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.