

For Research Use Only

Frataxin Polyclonal antibody

Catalog Number: 14147-1-AP

Featured Product

21 Publications



Basic Information

Catalog Number:

14147-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

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:

14-23 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:300-1:1200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, ColP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

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

IHC : human stomach tissue,

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)

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

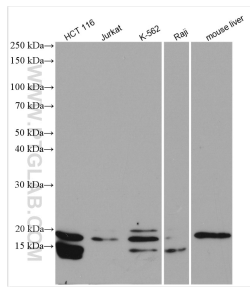
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

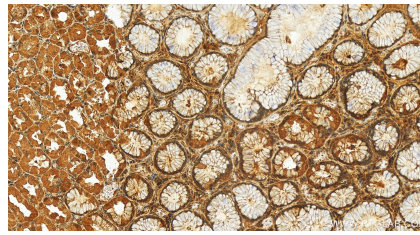
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W: ptglab.com

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Selected Validation Data



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



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 14147-1-AP (Frataxin antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).