

Human Frataxin antibody

Catalog Number: ATGA0440

PRODUCT INFORMATION

Catalog number

ATGA0440

Clone No.

AT10E11

Product type

Monoclonal Antibody

UnitProt No.

Q16595

NCBI Accession No.

NP_000135

Alternative Names

CyaY, FA, FARR, FRDA, X25, FXN, Friedreich ataxia protein.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Frataxin (42-210aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot analysis, and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Frataxin, also known as FXN, is an iron binding protein which belongs to FRATAXIN family. It is an anti-apoptotic protein which prevents mitochondrial damage, reactive oxygen species production and act as either an iron chaperone or an iron storage protein. Frataxin is localized to the mitochondrion and regulating mitochondrial iron transport and respiration. Defects in this protein cause Friedreich ataxia.

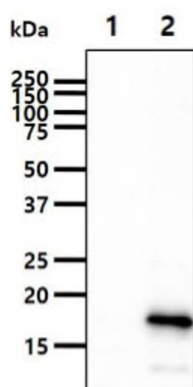
General References

Campuzano V., et al. (1996) Science. 271(5254): 1423-7.

Shan Y., et al. (2007) Hum Mol Genet. 16(8): 929-41.

DATA

Western blot analysis (WB)

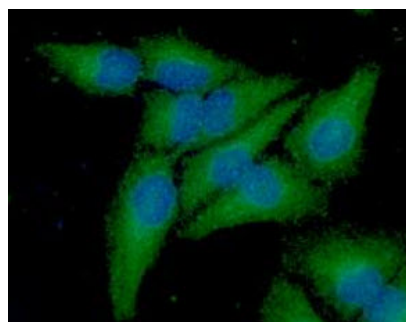


The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Frataxin antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : 293T cell lysate

Lane 2. : Frataxin transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of Frataxin in A549 cell line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Frataxin antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).