

LYRM4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57164

Specification

LYRM4 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q9HD34</u>

Reactivity Rat, Dog, Bovine Host Rabbit

Clonality Polyclonal
Calculated MW 11 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human LYRM4

Epitope Specificity 1-60/91 Isotype IgG

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Mitochondrion. Nucleus.

SIMILARITY
Important Note

Belongs to the complex I LYR family.

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

LYRM4 Polyclonal Antibody - Additional Information

Gene ID 57128

Other Names

LYR motif-containing protein 4, LYRM4, C6orf149, ISD11

Target/Specificity

Reduced mRNA levels in Friedreich ataxia patients.

Dilution

IHC-P~~N/A<br \><span class</pre>

="dilution_IHC-F">IHC-F~~N/A<br \><span class

="dilution_IF">IF \sim 1:50 \sim 200<br \>ICC \sim N/A<br \>E \sim N/A

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

LYRM4 Polyclonal Antibody - Protein Information



Name LYRM4 (HGNC:21365)

Synonyms C6orf149, ISD11

Function

Stabilizing factor, of the core iron-sulfur cluster (ISC) assembly complex, that regulates, in association with NDUFAB1, the stability and the cysteine desulfurase activity of NFS1 and participates in the [2Fe-2S] clusters assembly on the scaffolding protein ISCU (PubMed:17331979, PubMed:31664822). The core iron-sulfur cluster (ISC) assembly complex is involved in the de novo synthesis of a [2Fe-2S] cluster, the first step of the mitochondrial iron-sulfur protein biogenesis. This process is initiated by the cysteine desulfurase complex (NFS1:LYRM4:NDUFAB1) that produces persulfide which is delivered on the scaffold protein ISCU in a FXN-dependent manner. Then this complex is stabilized by FDX2 which provides reducing equivalents to accomplish the [2Fe-2S] cluster assembly. Finally, the [2Fe-2S] cluster is transferred from ISCU to chaperone proteins, including HSCB, HSPA9 and GLRX5 (By similarity). May also participates in the iron-sulfur protein biogenesis in the cytoplasm through its interaction with the cytoplasmic form of NFS1 (PubMed:19454487).

Cellular LocationMitochondrion, Nucleus

Tissue Location

Reduced mRNA levels in Friedreich ataxia patients.

LYRM4 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LYRM4 Polyclonal Antibody - Images