

Product datasheet

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ARG44577 anti-LYRM4 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes LYRM4

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name LYRM4

Species Human

Immunogen Human LYRM4 recombinant protein (aa. sequence: M1-T91).

Conjugation Un-conjugated

Alternate Names LYRM4; LYR Motif Containing 4; ISD11; C6orf149; CGI-203; LYR Motif-Containing Protein 4;

Mitochondrial Matrix Nfs1 Interacting Protein; Chromosome 6 Open Reading Frame 149; Homolog Of

Yeast Isd11; COXPD19

Application Instructions

Application table	Application	Dilution
	WB	0.25-0.5 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	15-17 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer 0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.

Preservative 4% Trehalose

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol LYRM4

Gene Full Name LYR Motif Containing 4

Background The protein encoded by this gene is found in both mitochondria and the nucleus, where it binds

cysteine desulfurase and helps free inorganic sulfur for Fe/S clusters. Disruption of this gene negatively

impacts mitochondrial and cytosolic iron homeostasis. [provided by RefSeq, Sep 2016]

Function 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

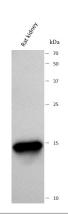
May also participates in the iron-sulfur protein biogenesis in the cytoplasm through its interaction with

the cytoplasmic form of NFS1. [Uniprot]

Calculated Mw 11 kDa

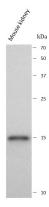
Cellular Localization Mitochondrion, Nucleus. [Uniprot]

Images



ARG44577 anti-LYRM4 antibody WB image

Western blot: Rat kidney stained with ARG44577 anti-LYRM4 antibody at 0.5 μ g/mL dilution.



ARG44577 anti-LYRM4 antibody WB image

Western blot: Mouse kidney stained with ARG44577 anti-LYRM4 antibody at $0.5 \mu g/mL$ dilution.