

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% Na ₂ HPO ₄ , 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	<p>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</p> <p>May also participates in the iron-sulfur protein biogenesis in the cytoplasm through its interaction with the cytoplasmic form of NFS1. [Uniprot]</p>
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 µg/mL dilution.



ARG44577 anti-LYRM4 antibody WB image

Western blot: Mouse kidney stained with ARG44577 anti-LYRM4 antibody at 0.5 µg/mL dilution.