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LYRM4 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP10681c

Specification

LYRM4 Antibody (Center) Blocking peptide - Product Information

Primary Accession Q9HD34

LYRM4 Antibody (Center) Blocking peptide - Additional Information

Gene ID 57128

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LYRM4 Antibody (Center) Blocking peptide - 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:31664822, PubMed:17331979). 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 Location

Mitochondrion. Nucleus

Tissue Location
Reduced mRNA levels in Friedreich ataxia patients.

LYRM4 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

LYRM4 Antibody (Center) Blocking peptide - Images

LYRM4 Antibody (Center) Blocking peptide - Background

Required for nuclear and mitochondrial iron-sulfur protein biosynthesis.

LYRM4 Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Henckaerts, L., et al. Clin. Gastroenterol. Hepatol. 7(9):972-980(2009)Shi, Y., et al. Hum. Mol. Genet. 18(16):3014-3025(2009)Weersma, R.K., et al. Am. J. Gastroenterol. 104(3):630-638(2009)