abcam

Product datasheet

Recombinant Human YARS2/TyRS protein ab126680

1 Image

Description

Product name	Recombinant Human YARS2/TyRS protein
Purity	> 85 % SDS-PAGE. ab126680 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	Q9Y2Z4
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHH SSGLVPRGSH M**TLNLSVLLP LGLRKAHSGA QGLLAAQKAR GLFKDFFPET GTKIELPELF DRGTASFPQT IYCGFDPTAD SLHVGHLLAL LGLFHLQRAG HNVIALVGGA TARLGDPSGR TKEREALETE RVRANARALR LGLEALAANH QQLFTDGRSW GSFTVLDNSA WYQKQHLVDF LAAVGGHFRM GTLLSRQSVQ LRLKSPEGMS LAEFFYQVLQ AYDFYYLFQR YGCRVQLGGS DQLGNIMSGY EFINKLTGED VFGITVPLIT STTGAKLGKS AGNAVWLNRD KTSPFELYQF FVRQPDDSVE RYLKLFTFLP LPEIDHIMQL HVKEPERRGP QKRLAAEVTK LVHGREGLDS AKRCTQALYH SSIDALEVMS DQELKELFKE APFSEFFLDP GTSVLDTCRK ANAIPDGPRG YRMITEGGVS INHQQVTNPE SVLIVGQHIL KNGLSLLKIG KRNFYIIKWL QL
Predicted molecular weight	54 kDa including tags
Amino acids	17 to 477
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab126680** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Protein previously labeled as YARS2.

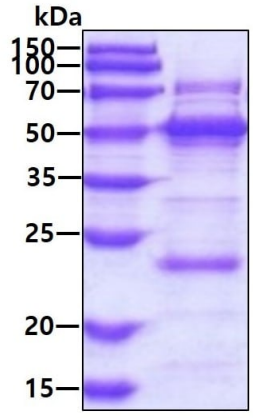
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function	Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).
Involvement in disease	Defects in YARS2 are the cause of myopathy with lactic acidosis and sideroblastic anemia type 2 (MLASA2) [MIM:613561]. MLASA2 is a rare oxidative phosphorylation disorder specific to skeletal muscle and bone marrow. Affected individuals manifest sideroblastic anemia, progressive lethargy, muscle weakness, and exercise intolerance associated with persistent lactic acidemia.
Sequence similarities	Belongs to the class-I aminoacyl-tRNA synthetase family.
Cellular localization	Mitochondrion matrix.

Images



SDS-PAGE - Recombinant Human YARS2/TyRS protein (ab126680)

3ug by SDS-PAGE under reducing conditions and visualized by coomassie blue stain.

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