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QRSL Rabbit pAb

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Catalog # AP57881

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H0R6
Predicted	Rat, Pig, Dog, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57460
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human QRSL
Epitope Specificity	401-500/528
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Mitochondrion.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	QRSL belongs to the amidase family. Catalytic activity: ATP + L-glutamyl-tRNA(Gln) + L-glutamine = ADP + phosphate + L-glutaminyl-tRNA(Gln) + L-glutamate. There are two named isoforms.

Additional Information

Gene ID	55278
Other Names	Glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial {ECO:0000255|HAMAP-Rule:MF_03150}, Glu-AdT subunit A {ECO:0000255|HAMAP-Rule:MF_03150}, 6.3.5.7 {ECO:0000255|HAMAP-Rule:MF_03150}, Glutaminyl-tRNA synthase-like protein 1 {ECO:0000255|HAMAP-Rule:MF_03150}, QRSL1 {ECO:0000255|HAMAP-Rule:MF_03150}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °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 °C.

Protein Information

Name	QRSL1 {ECO:0000255|HAMAP-Rule:MF_03150}

Function	Catalytic subunit of the mitochondrial Glu-tRNA(Gln) amidotransferase complex GatCAB (Probable) (PubMed:19805282). GatCAB allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln) (By similarity). This subunit probably catalyzes the hydrolysis of the amido donor Gln, releasing ammonia that is sequestered within a channel in the GatCAB complex and made available to subunit B for downstream aminolysis of Glu-tRNA(Gln) (Probable). Required for the stability of GATB (By similarity).
Cellular Location	Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03150, ECO:0000269|PubMed:19805282}

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.