

Product datasheet for **TA356108**

FARS2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human FARS2
Specificity:	Expected reactivity: Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat Homology: Cow: 93%; Dog: 92%; Guinea Pig: 85%; Horse: 83%; Human: 100%; Mouse: 92%; Rabbit: 100%; Rat: 93%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	50kDa
Gene Name:	phenylalanyl-tRNA synthetase 2, mitochondrial
Database Link:	NP_006558 Entrez Gene 10667 Human O95363



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Background:

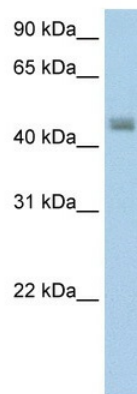
Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. FARS2 is a phenylalanine-tRNA synthetase (PheRS) localized to the mitochondrion which consists of a single polypeptide chain, unlike the (alpha-beta)₂ structure of the prokaryotic and eukaryotic cytoplasmic forms of PheRS. Structure analysis and catalytic properties indicate mitochondrial PheRSs may constitute a class of PheRS distinct from the enzymes found in prokaryotes and in the eukaryotic cytoplasm. Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. FARS1 encodes a mitochondrially-located phenylalanine-tRNA synthetase (PheRS) which consists of a single polypeptide chain unlike the (alpha-beta)₂ structure of the prokaryotic and eukaryotic cytoplasmic forms of PheRS. Structure analysis and catalytic properties indicate mitochondrial PheRSs may constitute a class of PheRS distinct from the enzymes found in prokaryotes and the eukaryotic cytoplasm.

Synonyms:

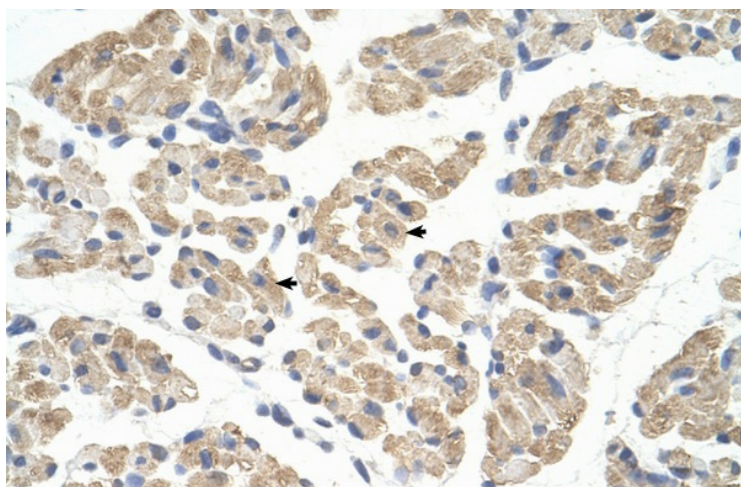
dj236A3.1; dj520B18.2; FARS1; HSPC320; OTTHUMP00000015986; PheRS

Protein Pathways:

Aminoacyl-tRNA biosynthesis

Product images:

WB Suggested Anti-FARS2 Antibody Titration:
5.0ug/ml
ELISA Titer: 1:62500
Positive Control: Transfected 293T



Rabbit Anti-FARS2 Antibody
Catalog Number: ARP40669
Paraffin Embedded Tissue: Human Muscle
Cellular Data: Skeletal muscle cells
Antibody Concentration: 4.0-8.0 ug/ml
Magnification: 400X