Rabbit FARS2 Polyclonal Antibody | anti-FARS2 antibody

FARS2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328854	**Rabbit**	**Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Horse, Rabbit, Dog**	**Western Blot**

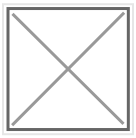
PRODUCT SYNONYMS

FARS2; Polyclonal Antibody; FARS2 Antibody; dJ236A3.1 (phenylalanine tRNA synthetase); dJ520B18.2 (FARS1 (phenylalanine tRNA synthetase)); FARS1; Fars2; HSPC320; Phenylalanine translase; Phenylalanine tRNA ligase 2; mitochondrial; Phenylalanine tRNA ligase; Phenylalanine tRNA synthetase 1 (mitochondrial); Phenylalanine tRNA synthetase 2 (mitochondrial); Phenylalanine--tRNA ligase; Phenylalanyl tRNA synthetase 2; Phenylalanyl-tRNA synthetase; PheRS; SYFM_HUMAN; anti-FARS2 antibody

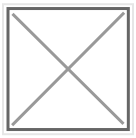
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	FARS2 Antibody detects endogenous levels of FARS2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	451
Applicable Applications for anti-FARS2 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human FARS2.
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Mitochondrion
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

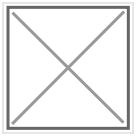
IMAGES



WB (Western Blot)
Western blot analysis of extracts from MCF7, using FARS2 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using FARS2 Antibody. The lane on the left was treated with blocking peptide.



IF (Immunofluorescence)
staining Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(1:200) and mouse anti-beta tubulin Ab(1:200) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(1:200 Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(1:600 Green) were used as the secondary antibod

ADDITIONAL INFORMATION

Related Product Information for anti-FARS2 antibody	Description: Is responsible for the charging of tRNA(Phe) with phenylalanine in mitochondrial translation. To a lesser extent, also catalyzes direct attachment of m-Tyr (an oxidized version of Phe) to tRNA(Phe), thereby opening the way for delivery of the misacylated tRNA to the ribosome and incorporation of ROS-damaged amino acid into proteins. Subunit Structure: Monomer. Similarity: Belongs to the class-II aminoacyl-tRNA synthetase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5729820
NCBI GeneID	10667
NCBI Accession #	NP_006558.1
NCBI GenBank Nucleotide #	NP_006558.1
UniProt Accession #	O95363
Molecular Weight	Observed: 48 kDa Predicted: 53 kDa
NCBI Official Full Name	phenylalanine--tRNA ligase, mitochondrial
NCBI Official Synonym Full Names	phenylalanyl-tRNA synthetase 2, mitochondrial
NCBI Official Symbol	FARS2
NCBI Official Synonym Symbols	FARS1; PheRS; SPG77; COXPD14; HSPC320; mtPheRS
NCBI Protein Information	phenylalanine--tRNA ligase, mitochondrial
UniProt Protein Name	Phenylalanine--tRNA ligase, mitochondrial
UniProt Gene Name	**FARS2**
UniProt Synonym Gene Names	FARS1; PheRS
UniProt Entry Name	SYFM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/fars2-antibody-western-blot-elisa/328854