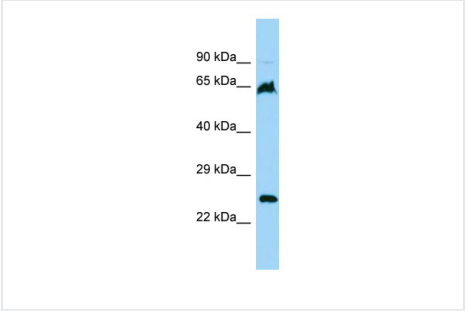
FARSB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FARSB, Polyclonal Antibody
Full Product Name	FARSB Antibody - N-terminal region
Product Gene Name	anti-FARSB antibody
Product Synonym Gene Name	FARSLB; FRSB; HSPC173; PheHB; PheRS
Immunogen Sequence	Synthetic peptide located within the following region: EEFDELCFEF GLELDEITSE KEIISKEQGN VKAAGASDVV LYKIDVPANR
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Cow, Dog, Goat, Guinea Pig, Human, Pig, Rabbit, Rat
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	FARSB peptide (MBS3242431) is used for blocking the activity of FARSB antibody (MBS3217536)
Molecular Weight	65kDa
OMIM	609690
3D Structure	ModBase 3D Structure for Q9NSD9
Homology	Cow: 86%; Dog: 86%; Goat: 86%; Guinea Pig: 79%; Human: 100%; Pig: 86%; Rabbit: 93%; Rat: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the N-terminal region of Human FARSB
Product Categories/Family for anti-FARSB antibody	Polyclonal; Various
Applications Tested/Suitable for anti-FARSB antibody	Western Blot (WB)
Related Product Information for anti-FARSB antibody	This is a rabbit polyclonal antibody against FARSB. It was validated on Western Blot Target Description: This gene encodes a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine to the terminal adenosine of the appropriate tRNA. A pseudogene located on chromosome 10 has been identified.
Other Notes	Small volumes of anti-FARSB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FARSB purchase	MBS3217536 is an antibody targeting FARSB. Also known as FARSB Antibody - N-terminal region. Reactive in Cow, Dog, Goat, Guinea Pig, Human, Pig, Rabbit, Rat. Host: Rabbit.



Western Blot (WB) of anti-FARSB antibody
Host: RabbitTarget Name: FARSBSample Type: 293T Whole Cell lysatesAntibody Dilution: 1.0ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FARSB. It may not necessarily be applicable to this product.

NCBI GI #	124028525
NCBI GeneID	10056
NCBI Accession #	NP_005678
UniProt Primary Accession #	Q9NSD9
UniProt Related Accession #	Q9NSD9
GenBank Nucleotide #	NM_005687
NCBI Official Full Name	phenylalanine--tRNA ligase beta subunit
NCBI Official Synonym Full Names	phenylalanyl-tRNA synthetase subunit beta
NCBI Official Symbol	FARSB
NCBI Official Synonym Symbols	FRSB; PheHB; PheRS; FARSLB; RILDBC; HSPC173; NEDBLLA
UniProt Protein Name	Phenylalanine--tRNA ligase beta subunit
UniProt Synonym Protein Names	Phenylalanyl-tRNA synthetase beta subunit; PheRS
UniProt Gene Name	FARSB
UniProt Synonym Gene Names	FARSLB; FRSB; PheRS
UniProt Entry Name	SYFB_HUMAN
NCBI Protein Information	phenylalanine--tRNA ligase beta subunit
NCBI Summary for FARSB	This gene encodes a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine to the terminal adenosine of the appropriate tRNA. A pseudogene located on chromosome 10 has been identified. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

UniProt Comments for FARSB	FARSLB: a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine to the terminal adenosine of the appropriate tRNA. A pseudogene located on chromosome 10 has been identified. [provided by RefSeq, Jul 2008] Protein type: Ligase; EC 6.1.1.20; Translation Chromosomal Location of Human Ortholog: 2q36.1 Cellular Component: membrane; cytoplasm; cytosol Molecular Function: RNA binding; phenylalanine-tRNA ligase activity; magnesium ion binding; ATP binding Biological Process: tRNA aminoacylation for protein translation; translation; phenylalanyl-tRNA aminoacylation; gene expression
Research Articles on FARSB	**1.** Human PheRS recognizes C74, the G1-C72 base pair, and the "discriminator" base A73, proposed to contribute to tRNA(Phe) identity in the yeast mitochondrial enzyme.
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