SYFB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYFB, Polyclonal Antibody
Full Product Name	SYFB Rabbit Polyclonal Antibody
Product Gene Name	anti-SYFB antibody
Product Synonym Gene Name	FARSB, FARSLB, FRSB, HSPC173
Product Synonym Names	BH6842; Phenylalanine--tRNA ligase beta subunit (EC 6.1.1.20)(Phenylalanyl-tRNA synthetase beta subunit)(PheRS)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	SYFB Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	589
OMIM	609690
3D Structure	ModBase 3D Structure for Q9NSD9
Immunogen	Synthesized peptide derived from part region of human protein
Modification	Unmodified/Total
Applications Tested/Suitable for anti-SYFB antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SYFB antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-SYFB antibody	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]
Other Notes	Small volumes of anti-SYFB 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 SYFB purchase	MBS9517239 is an antibody targeting SYFB. Also known as SYFB Rabbit Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	296452943
NCBI GeneID	10056
NCBI Accession #	Q9NSD9.3
UniProt Primary Accession #	Q9NSD9
UniProt Secondary Accession #	O95708; Q4ZFX1; Q57ZJ5; Q9NZZ6; B4DFM0
UniProt Related Accession #	Q9NSD9
NCBI Official Full Name	Phenylalanine--tRNA ligase beta subunit
NCBI Official Synonym Full Names	phenylalanyl-tRNA synthetase, beta subunit
NCBI Official Symbol	FARSB
NCBI Official Synonym Symbols	FRSB; PheHB; PheRS; FARSLB; HSPC173
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; phenylalanine-tRNA ligase beta chain; phenylalanine--tRNA ligase beta chain; phenylalanyl-tRNA synthetase beta chain; phenylalanyl-tRNA synthetase beta-subunit; phenylalanine tRNA ligase 1, beta, cytoplasmic; pheny
UniProt Comments for SYFB	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 SYFB	**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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