10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FARSLB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant FARSLB.
Catalog # AT1999a

Product Information

Application	WB, IHC
Primary Accession	Q9NSD9
Other Accession	NM_005687
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2F11
Calculated MW	66116

Additional Information

Gene ID	10056
Other Names	Phenylalanine--tRNA ligase beta subunit, Phenylalanyl-tRNA synthetase beta subunit, PheRS, FARSB, FARSLB, FRSB
Target/Specificity	FARSLB (NP_005678, 234 a.a. ~ 341 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FARSLB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

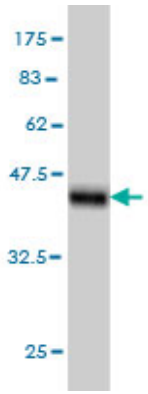
This gene encodes a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine to the terminal adenosine of the appropriate tRNA. A pseudogene located on chromosome 10 has been identified.

References

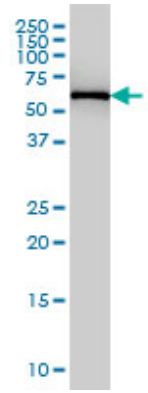
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Structure of human cytosolic phenylalanyl-tRNA

synthetase: evidence for kingdom-specific design of the active sites and tRNA binding patterns. Finarov I, et al. Structure, 2010 Mar 10. PMID 20223217.Nucleolar proteome dynamics. Andersen JS, et al. Nature, 2005 Jan 6. PMID 15635413.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Role of low-molecular-weight substrates in functional binding of the tRNAPhe acceptor end by phenylalanyl-tRNA synthetase. Vasil'eva IA, et al. Biochemistry (Mosc), 2004 Feb. PMID 15000680.

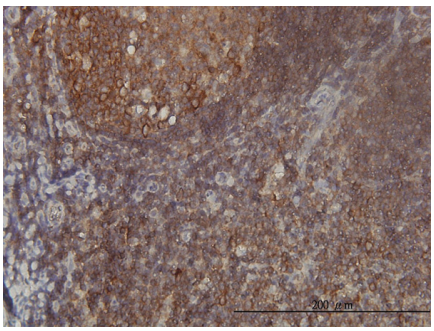
Images



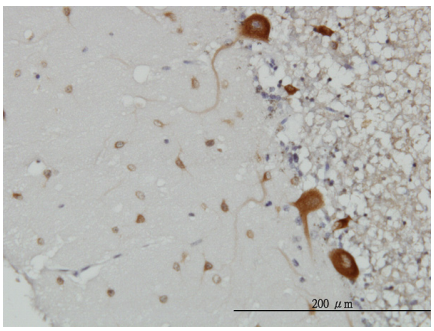
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.62 KDa) .



FARSLB monoclonal antibody (M01), clone 2F11 Western Blot analysis of FARSLB expression in HepG2 ((Cat # AT1999a)



Immunoperoxidase of monoclonal antibody to FARSLB on formalin-fixed paraffin-embedded human tonsil tissue. [antibody concentration 3 ug/ml]



Immunoperoxidase of monoclonal antibody to FARSLB on formalin-fixed paraffin-embedded human cerebellum. [antibody concentration 3 ug/ml]