

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

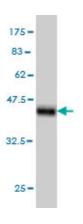
This gene encodes a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine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

References

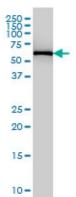
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Structure of human cytosolic phenylalanyl-tRNA

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



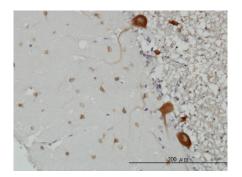
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.62 KDa) .



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]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.