

FARSLB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant FARSLB.

Catalog # AT1999a

Specification

FARSLB Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC
Primary Accession	O9NSD9
Other Accession	NM_005687
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	66116

FARSLB Antibody (monoclonal) (M01) - 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.

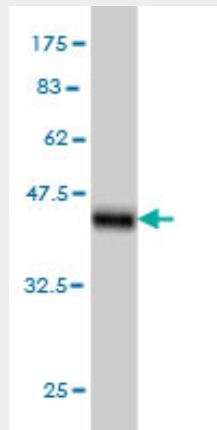
FARSLB Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

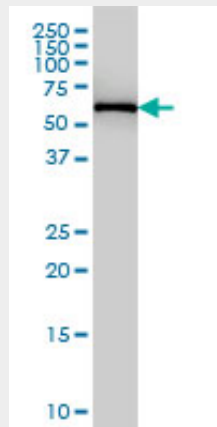
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

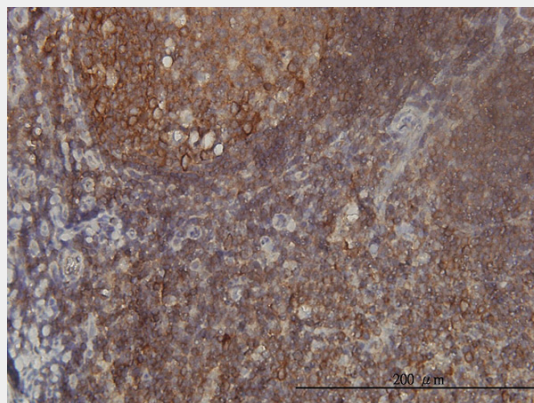
FARSLB Antibody (monoclonal) (M01) - Images



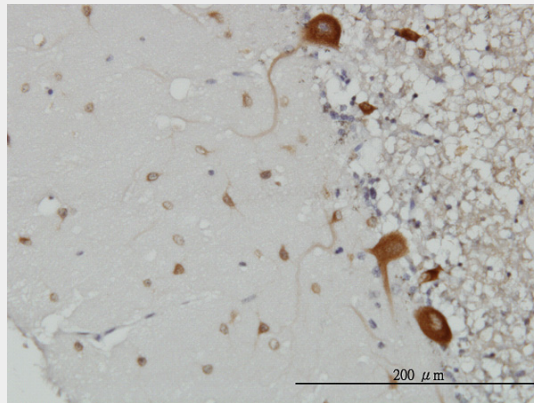
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .



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]

FARSLB Antibody (monoclonal) (M01) - 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.

FARSLB Antibody (monoclonal) (M01) - 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 tRNA^{Phe} acceptor end by phenylalanyl-tRNA synthetase. Vasil'eva IA, et al. *Biochemistry (Mosc)*, 2004 Feb. PMID 15000680.