

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.

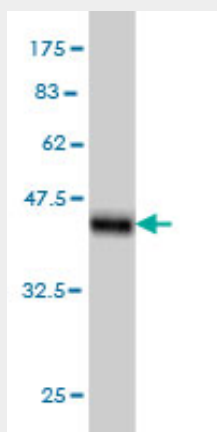
FARSLB Antibody (monoclonal) (M01) - Protocols

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

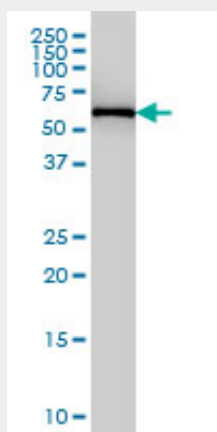
- [Western Blot](#)
- [Blocking Peptides](#)

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

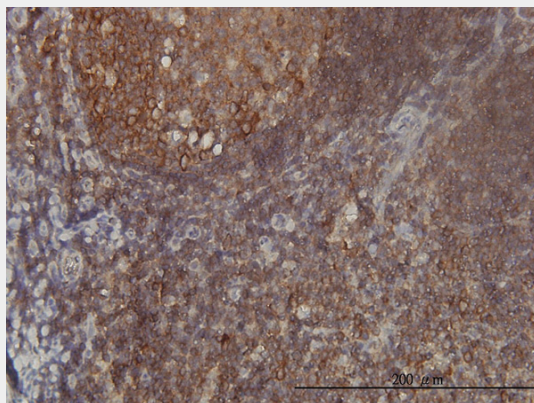
FARSLB Antibody (monoclonal) (M01) - Images



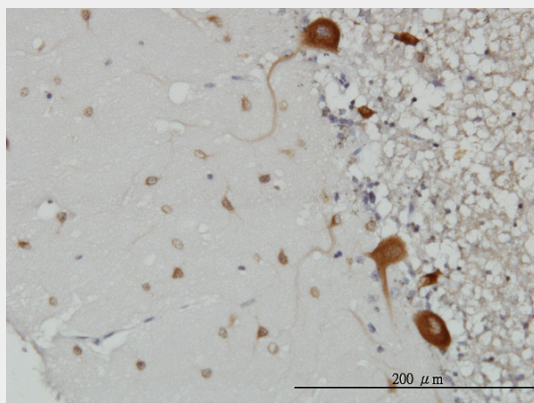
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .



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.