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

Specification

FARSLB Antibody (monoclonal) (M01) - Product Information

Application	**WB, IHC**
Primary Accession	Q9NSD9
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

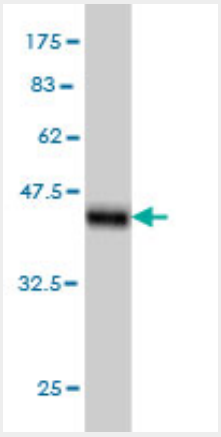
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

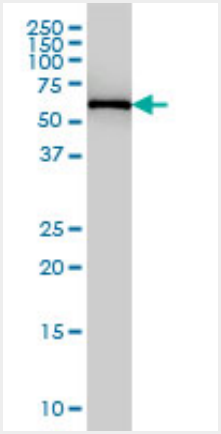
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

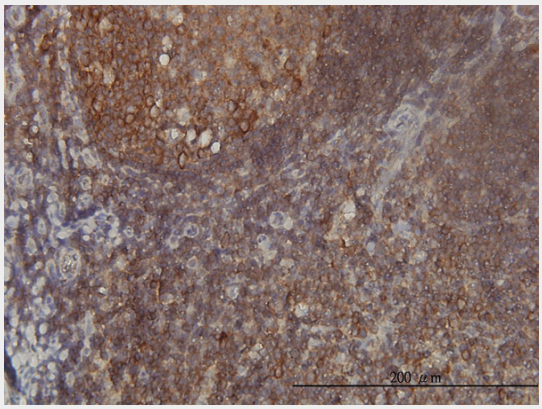
FARSLB Antibody (monoclonal) (M01) - Images



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

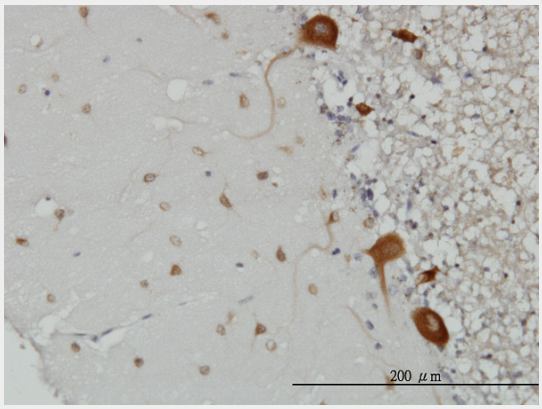


FARSLB monoclonal antibody (M01), clone 2F11 Western Blot analysis of FARSLB expression in HepG2 ((Cat # AT1999a)



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

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 tRNAPhe acceptor end by phenylalanyl-tRNA synthetase. Vasil'eva IA, et al. Biochemistry (Mosc), 2004 Feb. PMID 15000680.