

Product datasheet for CF806739

FARSLB (FARSB) Mouse Monoclonal Antibody [Clone ID: OTI4B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4B3
Applications:	IHC, WB
Recommended Dilution:	IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human FARSB (NP_005678) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	65.9 kDa
Gene Name:	phenylalanyl-tRNA synthetase subunit beta
Database Link:	NP_005678 Entrez Gene 23874 Mouse Entrez Gene 301544 Rat Entrez Gene 10056 Human Q9NSD9


[View online »](#)

Background:

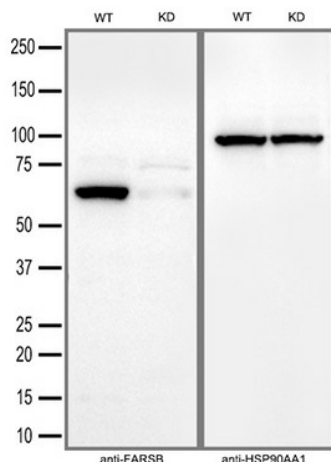
This gene encodes a highly conserved enzyme that belongs to the aminoacyl-tRNA synthetase class IIc subfamily. This enzyme comprises the regulatory beta subunits that form a tetramer with two catalytic alpha subunits. In the presence of ATP, this tetramer is responsible for attaching L-phenylalanine to the terminal adenosine of the appropriate tRNA. A pseudogene located on chromosome 10 has been identified. [provided by RefSeq, Jul 2008]

Synonyms:

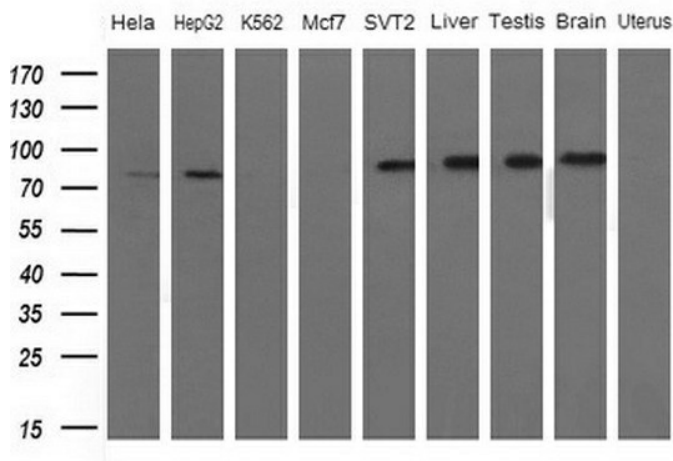
FARSLB; FRSB; HSPC173; PheHB; PheRS

Protein Pathways:

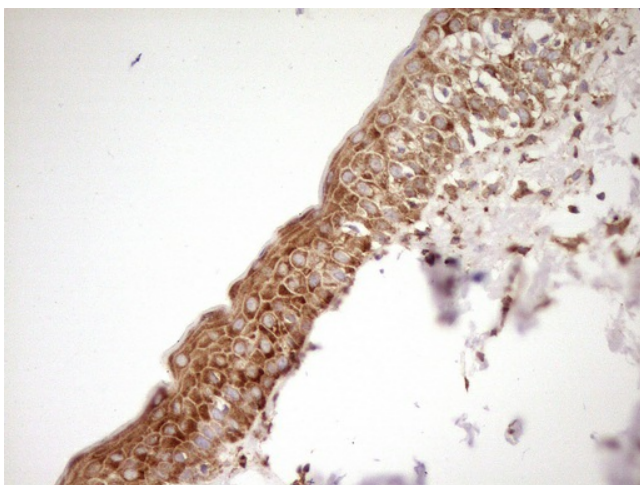
Aminoacyl-tRNA biosynthesis

Product images:


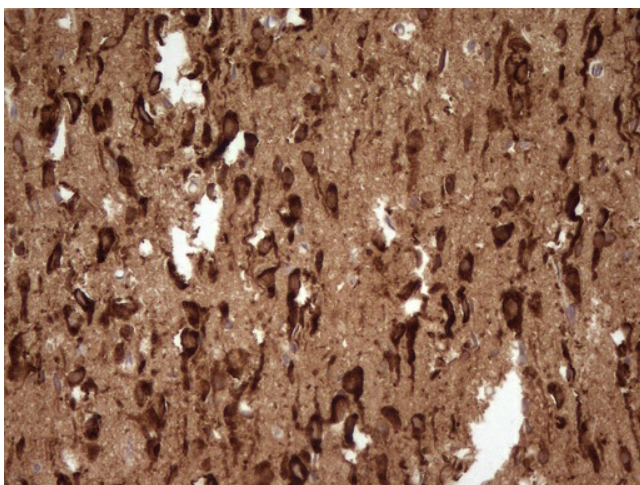
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells (WT) and FARSB-Knockdown HeLa cells (KD) were separated by SDS-PAGE and immunoblotted with anti-FARSB monoclonal antibody [TA806739] (1:1000). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



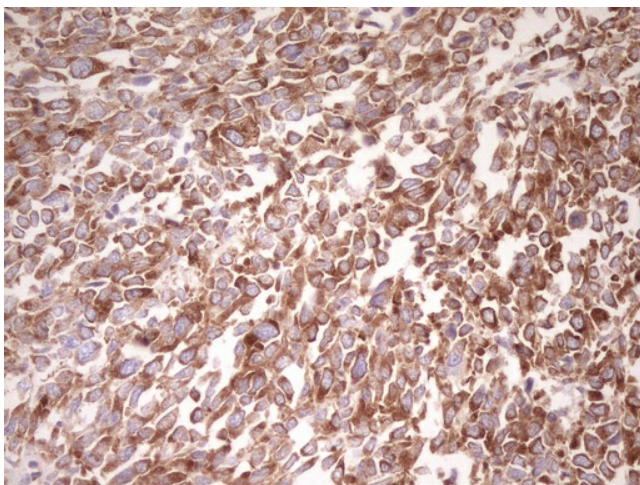
Western blot analysis of extracts (10ug) from 5 different cell lines and 4 human tissue by using anti-FARSB monoclonal antibody (1:200 dilution). The blot shows strong bands for HeLa, HepG2, SVT2, Liver, Testis, Brain, and Uterus, and a very faint band for K562.



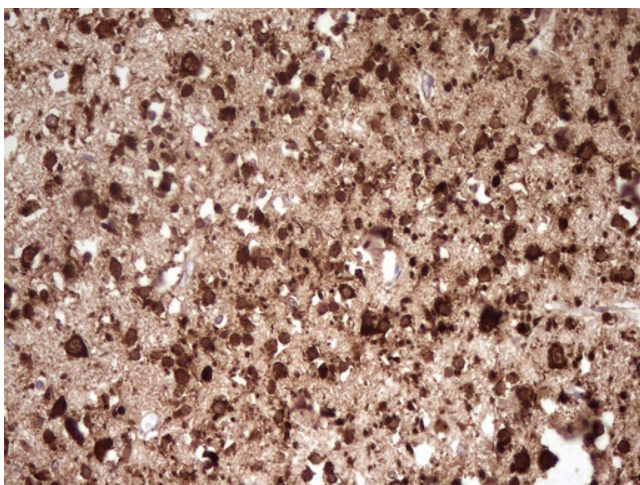
Immunohistochemical staining of paraffin-embedded Human skin tissue using anti-FARSB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



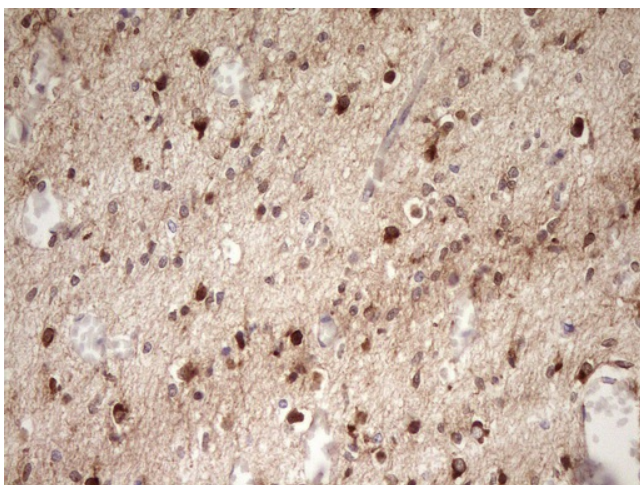
Immunohistochemical staining of paraffin-embedded Human adult brain tissue using anti-FARSB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



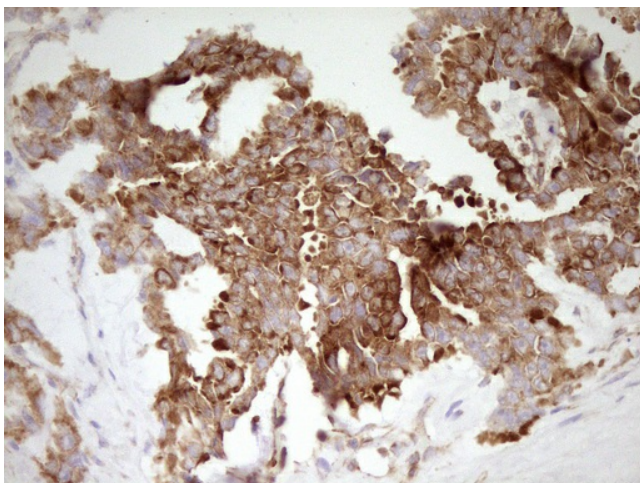
Immunohistochemical staining of paraffin-embedded Human melanoma tissue using anti-FARSB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human embryonic brain cortex tissue using anti-FARSB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum using anti-FARSB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human testicular cancer tissue using anti-FARSB mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.