

FARSLA (H-300): sc-135124

BACKGROUND

Aminoacyl-tRNA synthetases consist of a family of enzymes that catalyze the specific aminoacylation of tRNA by their cognate amino acid in the initial step of ribosome-dependent protein biosynthesis. FARSLA, also known as FRSA, CML33, FARSL or PheHA (phenylalanyl-tRNA synthetase, α subunit), is a member of the class-II aminoacyl-tRNA synthetase family and is highly expressed in proliferating cells of bone marrow. FARSLA is a cytoplasmic phenylalanine-tRNA synthetase that functions as a heterodimer consisting of a catalytic α -subunit and a regulatory β -subunit. The α -subunit is responsible for forming the amino acid binding pocket, mediating the ATP/aminoacyl adenylate binding, and interacts with the acceptor stem of the tRNA. FARSLA functions in a cell cycle-dependent and differentiation-dependent manner.

CHROMOSOMAL LOCATION

Genetic locus: FARSA (human) mapping to 19p13.2; Farsa (mouse) mapping to 8 C3.

SOURCE

FARSLA (H-300) is a rabbit polyclonal antibody raised against amino acids 209-508 mapping at the C-terminus of FARSLA of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

FARSLA (H-300) is recommended for detection of FARSLA of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FARSLA (H-300) is also recommended for detection of FARSLA in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FARSLA siRNA (h): sc-97718, FARSLA siRNA (m): sc-145073, FARSLA shRNA Plasmid (h): sc-97718-SH, FARSLA shRNA Plasmid (m): sc-145073-SH, FARSLA shRNA (h) Lentiviral Particles: sc-97718-V and FARSLA shRNA (m) Lentiviral Particles: sc-145073-V.

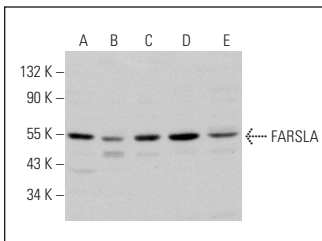
Molecular Weight of FARSLA: 55 kDa.

Positive Controls: MCF7 cell lysate: sc-2206, Jurkat whole cell lysate: sc-2204 or K-562 cell lysate: sc-2203.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FARSLA (H-300): sc-135124. Western blot analysis of FARSLA expression in MCF7 (A), HeLa (B), K-562 (C), Jurkat (D) and Hep G2 (E) whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **FARSLA (L-8): sc-100987**, our highly recommended monoclonal alternative to FARSLA (H-300).