

Datasheet for ABIN5002471

**anti-Phenylalanyl-tRNA Synthetase, alpha Subunit (FARSA)  
(AA 51-150) antibody (AbBy Fluor® 680)**



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## Overview

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                  |
| Target:              | Phenylalanyl-tRNA Synthetase, alpha Subunit (FARSA)                                                     |
| Binding Specificity: | AA 51-150                                                                                               |
| Reactivity:          | Human                                                                                                   |
| Host:                | Rabbit                                                                                                  |
| Clonality:           | Polyclonal                                                                                              |
| Conjugate:           | AbBy Fluor® 680                                                                                         |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human FARSLA/CML33 |
| Isotype:              | IgG                                                              |
| Predicted Reactivity: | Human, Mouse, Rat, Cow, Sheep, Pig, Horse                        |
| Purification:         | Purified by Protein A.                                           |

## Target Details

|                   |                                                                                       |
|-------------------|---------------------------------------------------------------------------------------|
| Target:           | Phenylalanyl-tRNA Synthetase, alpha Subunit (FARSA)                                   |
| Alternative Name: | FARSLA/CML33 ( <a href="#">FARSA Products</a> )                                       |
| Background:       | Synonyms: CML 33, CML33, FARS, FARSA, FARSL, FRSA, PheHA, Phenylalanine tRNA ligase 1 |

## Target Details

alpha cytoplasmic, Phenylalanine tRNA ligase alpha chain, Phenylalanine tRNA synthetase alpha subunit, Phenylalanine tRNA synthetase like alpha subunit, Phenylalanyl tRNA synthetase alpha chain, Phenylalanyl tRNA synthetase alpha subunit, Phenylalanyl tRNA synthetase like alpha subunit, PheRS.

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, alpha 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 alpha-subunit and a regulatory beta-subunit. The alpha-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.

Gene ID: 10160

## Application Details

Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

## Handling

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Expiry Date: 12 months