

## Rabbit anti-Human FARSA Polyclonal Antibody | anti-FARSA antibody

FARSA Antibody, Rabbit PAb, Antigen Affinity Purified

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                  |
|-----------|--------|------------|---------------------------------------------------------------|
| AAA258280 | Rabbit | Human      | Immunofluorescence, Immunocytochemistry, Immunohistochemistry |

### PRODUCT SYNONYMS

FARSA; Polyclonal Antibody; FARSA Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-FARSA Antibody; Rabbit Polyclonal; phenylalanyl-tRNA synthetase alpha subunit; Anti-CML33 Antibody; Anti-FARSL Antibody; Anti-FARSLA Antibody; Anti-FRSA Antibody; Anti-PheHA Antibody; anti-FARSA antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                      |
| Reactivity                                      | Human                                                                                                                                                                                                                                                       |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                  |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                  |
| Specificity                                     | Human FARSA                                                                                                                                                                                                                                                 |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                                |
| Form/Format                                     | Liquid. PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                                    |
| Applicable Applications for anti-FARSA antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)                                                                                                                                                                              |
| Immunogen                                       | E Coli-derived Human FARSA fragment                                                                                                                                                                                                                         |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                |
| Preparation                                     | Produced in rabbits immunized with E Coli-derived Human FARSA fragment, and purified by antigen affinity chromatography.                                                                                                                                    |
| Preparation and Storage                         | This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence staining of FARSA in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human FARSA polyclonal antibody (dilution ratio 1:100) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



#### IHC (Immunohistochemistry)

Immunochemical staining of human FARSA in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-FARSA antibody | Background: The charging of tRNA molecules with phenylalanine in the cytoplasm is accomplished via a tetrameric enzyme that contains two catalytic subunits encoded by phenylalanyl-tRNA synthetase alpha (FARSA; MIM# 602918) and two regulatory subunits encoded by phenylalanyl-tRNA synthetase beta (FARSB; MIM# 609690). Aminoacyl-tRNA synthetases (ARSs) are ubiquitously expressed enzymes that ligate tRNA molecules to cognate amino acids, which is the first step of protein translation. Genetic mutations that cause dysfunction or absence of ARSs result in various neurodevelopmental disorders. |
| References                                          | Antonellis A, et al. (2018) Compound heterozygosity for loss-of-function farsb variants in a patient with classic features of recessive aminoacyl-trna synthetase-related disease. Hum Mutat 39 (6): 834-840.                                                                                                                                                                                                                                                                                                                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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