

## Human Aspartyl tRNA synthetase, mitochondrial (DARS2) ELISA Kit | DARS2 elisa kit

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CATALOG #  
**AAA245547**

REACTIVITY  
**Human**

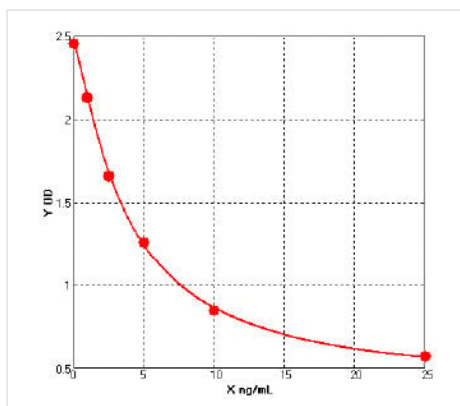
### PRODUCT SYNONYMS

Aspartyl tRNA synthetase; mitochondrial (DARS2); Human Aspartyl tRNA synthetase; mitochondrial (DARS2) ELISA Kit; DARS2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of DARS2. No significant cross-reactivity or interference between DARS2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between DARS2 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                                  |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                    |
| Sensitivity             | 0.1 ng/ml                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                         |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for DARS2 elisa kit | <p>Intended Uses: This DARS2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human DARS2. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: DARS2 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-DARS2 antibody and an DARS2-HRP conjugate. The assay sample and buffer are incubated together with DARS2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzymesubstrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the DARS2 concentration since DARS2 from samples and DARS2-HRP conjugate compete for the anti-DARS2 antibody binding site. Since the number of sites is limited, as more sites are occupied by DARS2 from the sample, fewer sites are left to bind DARS2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The DARS2 concentration in each sample is interpolated from this standard curve.</p> |
| Product Categories/Family for DARS2 elisa kit   | Epigenetics and Nuclear Signaling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 40789249                                                                                                               |
| NCBI GeneID                      | 55157                                                                                                                  |
| NCBI Accession #                 | NP_060592.2                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_018122.4                                                                                                            |
| Molecular Weight                 | 73,563 Da                                                                                                              |
| NCBI Official Full Name          | aspartate--tRNA ligase, mitochondrial                                                                                  |
| NCBI Official Synonym Full Names | aspartyl-tRNA synthetase 2, mitochondrial                                                                              |
| NCBI Official Symbol             | DARS2                                                                                                                  |
| NCBI Official Synonym Symbols    | LBSL; ASPRS; MT-ASPRS                                                                                                  |
| NCBI Protein Information         | aspartate--tRNA ligase, mitochondrial; aspartate tRNA ligase 2, mitochondrial; aspartyl-tRNA synthetase, mitochondrial |
| UniProt Protein Name             | Aspartate--tRNA ligase, mitochondrial                                                                                  |
| UniProt Gene Name                | DARS2                                                                                                                  |
| UniProt Synonym Gene Names       | AspRS                                                                                                                  |
| UniProt Entry Name               | SYDM_HUMAN                                                                                                             |

**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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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/aspartyl-trna-synthetase-mitochondrial-dars2/245547>