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# DARS Rabbit pAb

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Catalog # AP55454

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | P14868 |
| **Reactivity** | Pig, Human, Rabbit, Chicken, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 57136 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human Cell proliferation inducing protein 40 |
| **Epitope Specificity** | 401-501/501 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Cytoplasm. |
| **SIMILARITY** | Belongs to the class-II aminoacyl-tRNA synthetase family. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | Aspartyl-tRNA synthetase (DARS) is part of a multienzyme complex of aminoacyl-tRNA synthetases. Aspartyl-tRNA synthetase charges its cognate tRNA with aspartate during protein biosynthesis. [provided by RefSeq, Jul 2008] |

## Additional Information

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| **Gene ID** | 1615 |
| **Other Names** | Aspartate--tRNA ligase, cytoplasmic, 6.1.1.12, Aspartyl-tRNA synthetase, AspRS, Cell proliferation-inducing gene 40 protein, DARS1 (HGNC:2678), DARS |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | DARS1 ( HGNC:2678) |

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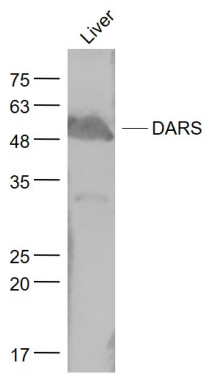
| **Synonyms** | DARS |
| **Function** | Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA. |
| **Cellular Location** | Cytoplasm, cytosol. |
| **Tissue Location** | Expression in the developing and adult brain shows similar patterns. Highly expressed in the ventricular and subventricular zones, including hippocampal subfields, the midlateral temporal cortex and the frontal polar cortex. The cerebellum, cerebral cortex, hippocampus, and lateral ventricle show preferential neuronal expression. Expression in the peripheral neurons is evident in the colon. |

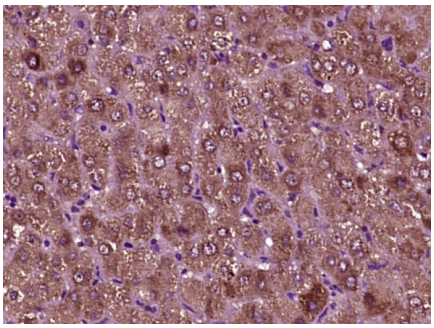
## Background

Aspartyl-tRNA synthetase (DARS) is part of a multienzyme complex of aminoacyl-tRNA synthetases. Aspartyl-tRNA synthetase charges its cognate tRNA with aspartate during protein biosynthesis. [provided by RefSeq, Jul 2008]

## Images




Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti- DARS (AP55454) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 57 kD
Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DARS) Polyclonal Antibody, Unconjugated (AP55454) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.