



Anti-AARS2 (internal region) polyclonal antibody (DPAB-DC2592)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

| | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antigen Description | The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8. |
| Immunogen | A synthetic peptide corresponding to amino acids 478-489 at internal region of human AARS2. The sequence is CQHRARQAEPVQK |
| Source/Host | Goat |
| Species Reactivity | Human |
| Purification | Antigen affinity purification |
| Conjugate | Unconjugated |
| Applications | WB (Transfected lysate), ELISA, |
| Format | Liquid |
| Concentration | 0.5 mg/mL |
| Size | 100 µg |
| Buffer | In Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA) |
| Preservative | 0.02% Sodium Azide |
| Storage | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name | AARS2 alanyl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)] |
| Official Symbol | AARS2 |
| Synonyms | AARS2; alanyl-tRNA synthetase 2, mitochondrial; AARSL; COXPD8; MTALARS; MT-ALARS; alanine--tRNA ligase, mitochondrial; alanyl-tRNA synthetase like; probable alanyl-tRNA synthetase, mitochondrial; alanine tRNA ligase 2, mitochondrial (putative); alanyl-tRNA synthetase 2, mitochondrial (putative); |
| Entrez Gene ID | 57505 |
| Protein Refseq | NP_065796 |
| UniProt ID | Q5JTZ9 |
| Chromosome Location | 6p21.1 |
| Pathway | Aminoacyl-tRNA biosynthesis; Aminoacyl-tRNA biosynthesis, eukaryotes; Gene Expression; tRNA Aminoacylation |
| Function | ATP binding; alanine-tRNA ligase activity; metal ion binding; tRNA binding |