

Product datasheet for **TA340184**

WARS2 Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB |
| Reactivity: | Human |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | The immunogen for anti-WARS2 antibody: synthetic peptide directed towards the middle region of human WARS2. Synthetic peptide located within the following region: TTKQKHDGTVGLLTYPVLQAADILLYKSTHVPVGEDQVQHMLVQDLAQQ |
| Formulation: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Concentration: | lot specific |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 24 kDa |
| Gene Name: | tryptophanyl tRNA synthetase 2, mitochondrial |
| Database Link: | NP_957715 Entrez Gene 10352 Human Q9UGM6 |



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Background:

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. WARS2 is the mitochondrial tryptophanyl-tRNA synthetase. Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. This gene encodes the mitochondrial tryptophanyl-tRNA synthetase. Two alternative transcripts encoding different isoforms have been described.

Synonyms:

TrpRS

Note:

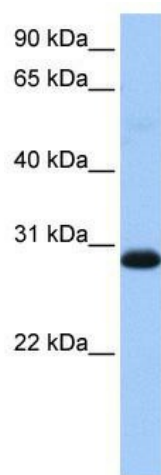
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Yeast: 93%; Zebrafish: 93%

Protein Families:

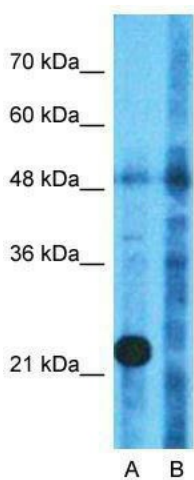
Druggable Genome

Protein Pathways:

Aminoacyl-tRNA biosynthesis, Tryptophan metabolism

Product images:

WB Suggested Anti-WARS2 Antibody Titration:
0.2-1 ug/ml; Positive Control: Human Muscle


Anti-WARS2 Western Blot & Peptide Block Validation

Lysate: Fetal Muscle

Lane A: Primary Antibody
Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 1.0µg/ml
Peptide Concentration: 5.0µg/ml
Lysate Quantity: 25µg/lane
Gel Concentration: 12%

Host: Rabbit; Target Name: WARS2; Sample Tissue: Human Fetal Muscle; Lane A: Primary Antibody; Lane B: Primary Antibody + Blocking Peptide; Primary Antibody Concentration: 1 ug/ml; Peptide Concentration: 5 ug/ml; Lysate Quantity: 25 ug/lane/lane; Gel Conc