

Product datasheet for **TA345782**

AlaRS (AARS) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-AARS antibody: synthetic peptide directed towards the C terminal of human AARS. Synthetic peptide located within the following region: VTGAEAQKALRKAESLKKCLSVMEAKVKAQTAPNKDVQREIADLGEALAT
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>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	107 kDa
Gene Name:	alanyl-tRNA synthetase
Database Link:	NP_001596 Entrez Gene 16 Human P49588



[View online »](#)

Background:

The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure. The human alanyl-tRNA synthetase (AARS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AARS shares 41% identity with the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure.

Synonyms:

CMT2N

Note:

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Guinea pig: 100%; Bovine: 93%; Rabbit: 93%; Zebrafish: 79%

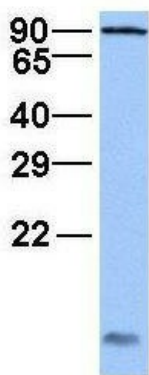
Protein Pathways:

Aminoacyl-tRNA biosynthesis

Product images:

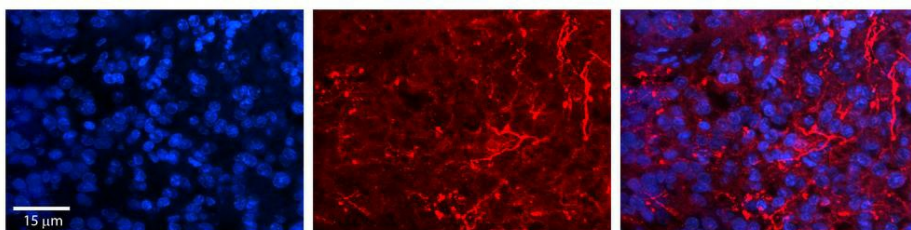
WB Suggested Anti-AARS Antibody Titration: 0.2-1 ug/ml; Positive Control: Jurkat cell lysate; AARS is supported by BioGPS gene expression data to be expressed in Jurkat

AARS



Rabbit Anti-AARS
 Sample Type: Human Jurkat
 Antibody Concentration: 1ug/mL

Host: Rabbit; Target Name: AARS; Sample Tissue: Jurkat; Antibody Dilution: 1.0 ug/ml; AARS is supported by BioGPS gene expression data to be expressed in Jurkat



Rabbit Anti-AARS Antibody; Formalin Fixed Paraffin Embedded Tissue: Human Pineal Tissue; Observed Staining: Cytoplasmic in cell processes of pinealocytes; Primary Antibody Concentration: 1: 100; Secondary Antibody: Donkey anti-Rabbit-Cy3; Secondary Antibody Concentration: 1: 200; Magnification: 20X; Exposure Time: 0.5-2.0 sec;