

Product datasheet for **TA345844**

Tyrosyl tRNA synthetase (YARS) 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-YARS antibody: synthetic peptide directed towards the N terminal of human YARS. Synthetic peptide located within the following region: MGDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTATTGKPHV
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:	59 kDa
Gene Name:	tyrosyl-tRNA synthetase
Database Link:	NP_003671 Entrez Gene 8565 Human P54577



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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. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine. 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. Tyrosyl-tRNA synthetase belongs to the class I tRNA synthetase family. Cytokine activities have also been observed for the human tyrosyl-tRNA synthetase, after it is split into two parts, an N-terminal fragment that harbors the catalytic site and a C-terminal fragment found only in the mammalian enzyme. The N-terminal fragment is an interleukin-8-like cytokine, whereas the released C-terminal fragment is an EMAP II-like cytokine. Sequence Note: The RefSeq transcript [https://www.ncbi.nlm.nih.gov/projects/locusXref/oho.cgi?server=REFTRACK&frm=0x66adf650&appid=0&evId=1&evIntpar=8565&evStrpar=&frmAn=EditAppLocusXref:edit YARS\(8565\)cript](https://www.ncbi.nlm.nih.gov/projects/locusXref/oho.cgi?server=REFTRACK&frm=0x66adf650&appid=0&evId=1&evIntpar=8565&evStrpar=&frmAn=EditAppLocusXref:edit%20YARS(8565)cript) and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Synonyms:

CMTDIC; TYRRS; YRS; YTS

Note:

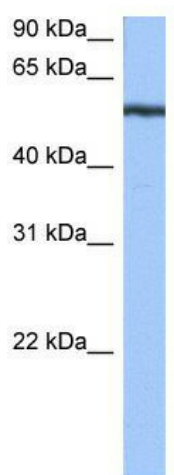
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Horse: 93%; Zebrafish: 93%

Protein Families:

Druggable Genome

Protein Pathways:

Aminoacyl-tRNA biosynthesis

Product images:

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