

## Product datasheet for **AP14233PU-N**

### Tyrosyl tRNA synthetase (YARS) (N-term) Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | WB   |
| Recommended Dilution: | ELISA: 1/1,000.<br>Western blotting: 1/50 - 1/100.   |
| Reactivity:           | Human  |
| Host:                 | Rabbit   |
| Isotype:              | Ig   |
| Clonality:            | Polyclonal   |
| Immunogen:            | This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human YARS. |
| Specificity:          | This antibody reacts to Tyrosyl tRNA synthetase (YARS).  |
| Formulation:          | PBS with 0.09% (W/V) sodium azide<br>State: Purified<br>State: Liquid purified Ig  |
| Concentration:        | lot specific   |
| Purification:         | Prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.            |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | tyrosyl-tRNA synthetase  |
| Database Link:        | <a href="#">Entrez Gene 8565 Human P54577</a>  |



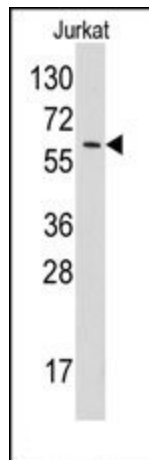
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**Background:**

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.

**Synonyms:**

TyrRS

**Product images:**

Western blot analysis of anti-YARS Pab in Jurkat cell line lysates (35ug/lane). YARS (arrow) was detected using the purified Pab (1:60 dilution).