ARG41282
anti-YARS / TyrRS antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes YARS / TyrRS
Tested Reactivity	Hu, Ms, Rat
Tested Application	IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	YARS / TyrRS
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-300 of Human YARS / TyrRS (NP_003671.1).
Conjugation	Un-conjugated
Alternate Names	Tyrosyl-tRNA synthetase; CMTDIC; YTS; EC 6.1.1.1; Tyrosine--tRNA ligase, cytoplasmic; TyrRS; TYRRS; YRS

Application Instructions

Application table

Application	Dilution
IP	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa
Observed Size	60 kDa

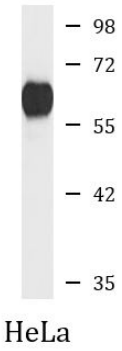
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

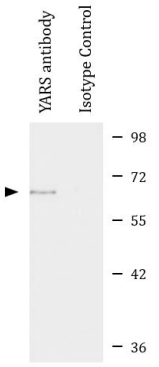
Gene Symbol	YARS
Gene Full Name	tyrosyl-tRNA synthetase
Background	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be 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. [provided by RefSeq, Jul 2008]
Function	Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr). [UniProt]
Calculated Mw	59 kDa
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG41282 anti-YARS / TyrRS antibody WB image

Western blot: 25 ug of HeLa cell lysate stained with ARG41282 anti-YARS / TyrRS antibody at 1:1000 dilution.



ARG41282 anti-YARS / TyrRS antibody IP image

Immunoprecipitation: 200 ug extracts of HeLa cells were immunoprecipitated and stained with ARG41282 anti-YARS / TyrRS antibody at 1:1000 dilution.