

Datasheet for ABIN933090
anti-YARS antibody



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3 Images

Overview

Quantity:	100 µg
Target:	YARS (Yars)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This YARS antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Flow Cytometry (FACS), Dot Blot (DB)

Product Details

Immunogen:	YARS antibody was raised in mouse using recombinant Tyrosyl-Trna Synthetase (Yars)
Clone:	YAR5H08
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Other species not studied.
Purification:	Protein G affinity chromatography

Target Details

Target:	YARS (Yars)
Alternative Name:	YARS (Yars Products)

Target Details

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: Monoclonal YARS antibody, Anti-YARS antibody, Tyrosyl-tRNA synthetase antibody, YRS antibody, YTS antibody, TYRRS antibody, CMTDIC antibody.

Application Details

Application Notes: WB: 0.2-2 µg/mL, IP: 100-500 µg/sample, FC: 0.5-2 µg/sample, ICC: 2-100 µg/mL
Optimal conditions should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: Lot specific

Buffer: YARS antibody in PBS (3.0 mM KCl, 1.5 mM KH₂ PO₄, 140 mM NaCl, 8.0 mM Na₂ HPO₄ (pH 7.4)) containing 1 % bovine serum albumin (BSA) and 0.05 % sodium azide (NaN₃).

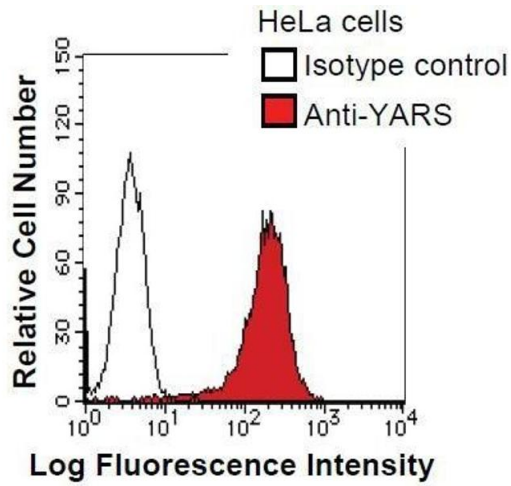
Preservative: Sodium azide

Precaution of Use: This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles.
Dilute only prior to immediate use.

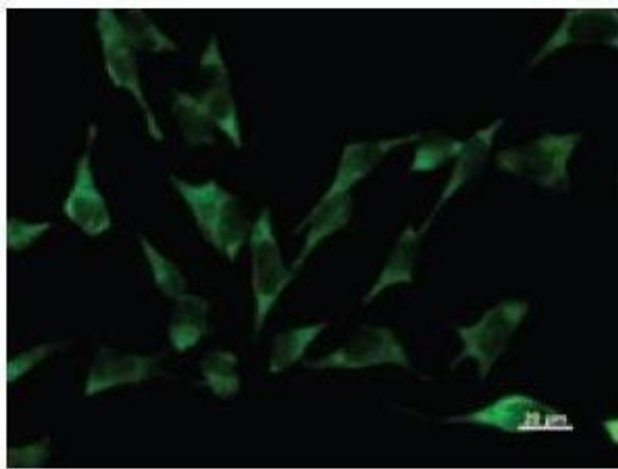
Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for up to one year. We recommend long term storage at -20 °C.



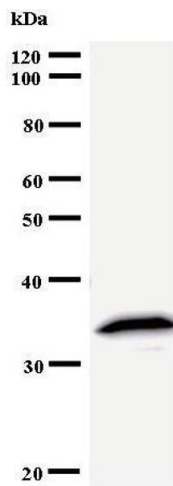
Flow Cytometry

Image 1. HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-YARS antibody (shaded) or isotype control (unshaded) followed by Alexa Fluor 488 conjugated goat anti-mouse IgG.



Immunofluorescence

Image 2. Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were stained with anti-YARS antibody.



Western Blotting

Image 3.