COSMO BIO CO., LTD.
Inspiration for Life Science

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Catalog No.CBX00147

Mouse monoclonal antibody Anti-Human YARS

Lot No. YAR5H08-2
Clone No. YAR5H08
Antibody class : IgG1
Immunogen : Recombinant

Formulation
Mouse monoclonal anti-human **YARS** antibody
in PBS (3.0 mM KCl, 1.5 mM KH_2PO_4,
140 mM NaCl, 8.0 mM Na_2HPO_4 (pH 7.4))
containing 1% bovine serum albumin (BSA)
and 0.05% sodium azide (NaN_3).

Antibody concentration
100 μg/ml

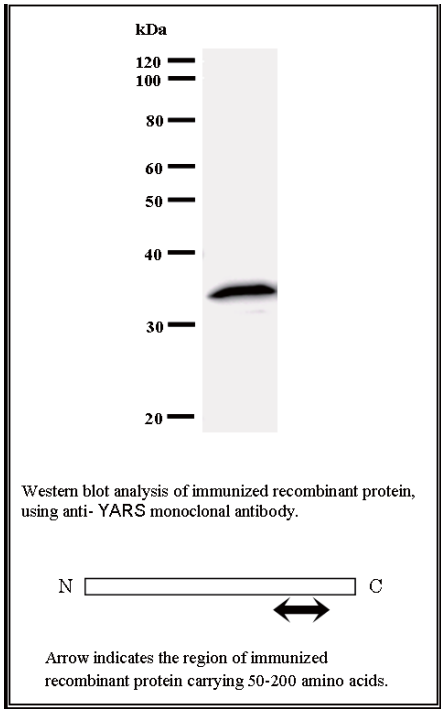
Storage
Store at 2-8℃ for up to one year.
We recommend storing at –20℃ for long-term storage.
Avoid repeat freezing and thawing cycles.

Preparation
This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.

Sterility
0.22μm membrane

Applications
WB, IP, IC, Dot Blot

Disposal
This antibody solution contains sodium azide (NaN_3) as a preservative. There is a potential hazard that NaN_3 reacts with copper or lead to produce an explosive compound. For safe disposal, the vial has to be washed thoroughly with water.



Western blot analysis of immunized recombinant protein, using anti- YARS monoclonal antibody.

Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.

Safety warnings and precautions
Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water.
Do not ingest, inhale, or swallow. Seek medical attention immediately.
Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.
It is strongly advised that this product should be handled by people who have been well trained in laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.
All chemicals are deemed potentially harmful.
The vial is prone to fall over. Use caution, especially when the lid is off.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

manufactured by BMR

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Mouse monoclonal antibody Anti-Human YARS

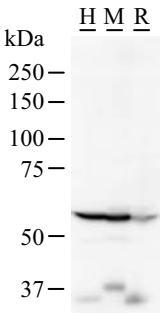
Background

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. [NCBI Entrez Gene Summary]

Recommended condition

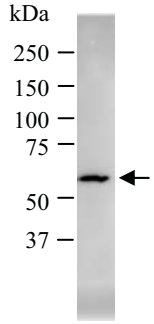
WB: 0.2-2 µg/ml IP: 100-500 µg/sample FC: 0.5-2 µg/sample ICC: 2-100 µg/ml

Application

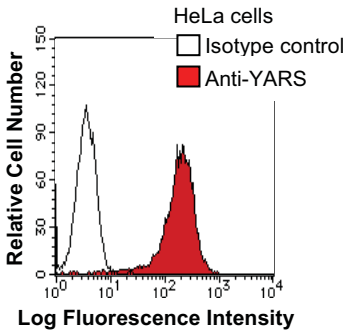


Detection of YARS by Western blot.
Samples: Whole cell lysate from human HeLa (H, 50 µg) , mouse NIH3T3 (M, 50 µg) and rat F2408 (R, 50 µg) cells. [Lot No. YAR5H08-2]

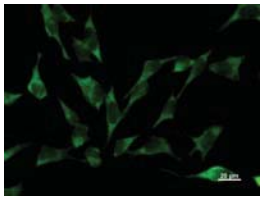
Predicted molecular weight: 59 kDa



Immunoprecipitation: RIPA lysate of HeLa cells was incubated with anti-YARS mAb. [Lot No. YAR5H08-2]



HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-YARS mAb (shaded) or isotype control (unshaded) followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG. [Lot No. YAR5H08-2]



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 immunostained with anti-YARS mAb. [Lot No. YAR5H08-1]