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# RARS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full-length recombinant RARS.
Catalog # AT3573a

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | P54136 |
| **Other Accession** | BC000528 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgM Kappa |
| **Clone Names** | 1E9-2B5 |
| **Calculated MW** | 75379 |

## Additional Information

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|---|---|
| **Gene ID** | 5917 |
| **Other Names** | Arginine--tRNA ligase, cytoplasmic, Arginyl-tRNA synthetase, ArgRS, RARS |
| **Target/Specificity** | RARS (AAH00528, 1 a.a. ~ 660 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | RARS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

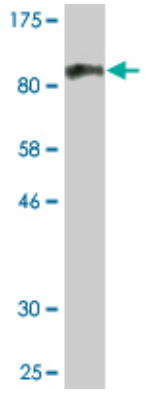
Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Arginyl-tRNA synthetase belongs to the class-I aminoacyl-tRNA synthetase family.

## References

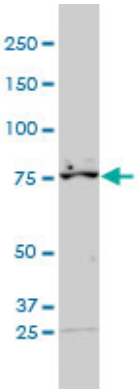
Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Proteasomes and RARS modulate AIMP1/EMAP II secretion in human cancer cell lines. Bottoni A, et al. J Cell Physiol, 2007 Aug. PMID 17443684.Large-scale mapping of human protein-protein

interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.The C-terminal appended domain of human cytosolic leucyl-tRNA synthetase is indispensable in its interaction with arginyl-tRNA synthetase in the multi-tRNA synthetase complex. Ling C, et al. J Biol Chem, 2005 Oct 14. PMID 16055448.

## Images




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (98.34 KDa) .




RARS monoclonal antibody (M01A), clone 1E9-2B5
Western Blot analysis of RARS expression in A-431 ( (Cat # AT3573a )