

RARS Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full-length recombinant RARS.****Catalog # AT3573a****Specification**

RARS Antibody (monoclonal) (M01) - Product Information

Application	WB
Primary Accession	P54136
Other Accession	BC000528
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgM Kappa
Calculated MW	75379

RARS Antibody (monoclonal) (M01) - Additional Information**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.

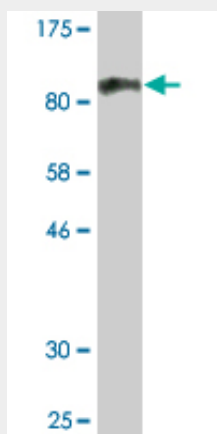
RARS Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

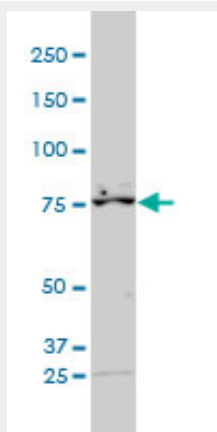
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RARS Antibody (monoclonal) (M01) - 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)

RARS Antibody (monoclonal) (M01) - 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.

RARS Antibody (monoclonal) (M01) - 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.