

**TARS Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant TARS.****Catalog # AT4155a****Specification**

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**TARS Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P26639</a>
Other Accession	<a href="#">NM_152295</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	83435

**TARS Antibody (monoclonal) (M01) - Additional Information****Gene ID** 6897**Other Names**

Threonine--tRNA ligase, cytoplasmic, Threonyl-tRNA synthetase, ThrRS, TARS

**Target/Specificity**

TARS (NP\_689508, 44 a.a. ~ 143 a.a) partial 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**

TARS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

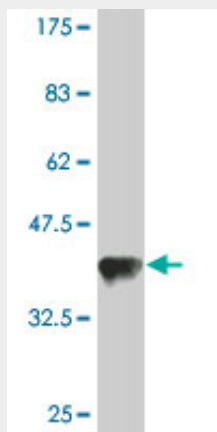
**TARS Antibody (monoclonal) (M01) - Protocols**

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

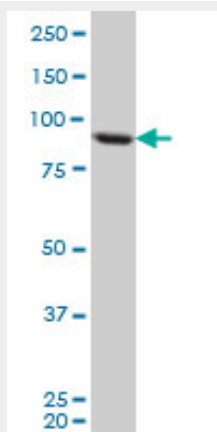
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

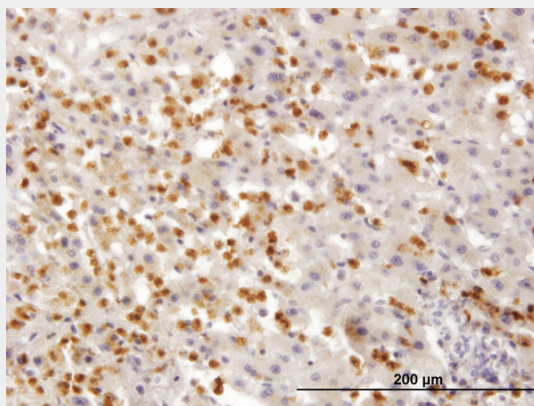
#### TARS Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



TARS monoclonal antibody (M01), clone 1A9 Western Blot analysis of TARS expression in HeLa (Cat # AT4155a )



Immunoperoxidase of monoclonal antibody to TARS on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 ug/ml]

**TARS 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. Threonyl-tRNA synthetase belongs to the class-II aminoacyl-tRNA synthetase family

**TARS Antibody (monoclonal) (M01) - References**

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931. Proteomics analysis of the interactome of N-myc downstream regulated gene 1 and its interactions with the androgen response program in prostate cancer cells. Tu LC, et al. Mol Cell Proteomics, 2007 Apr. PMID 17220478. The proteomic reactor facilitates the analysis of affinity-purified proteins by mass spectrometry: application for identifying ubiquitinated proteins in human cells. Vasilescu J, et al. J Proteome Res, 2007 Jan. PMID 17203973. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.