

MARS Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant MARS.****Catalog # AT2805a****Specification**

MARS Antibody (monoclonal) (M01) - Product Information

Application	WB, IF, E
Primary Accession	P56192
Other Accession	NM_004990
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	101116

MARS Antibody (monoclonal) (M01) - Additional Information**Gene ID** 4141**Other Names**

Methionine--tRNA ligase, cytoplasmic, Methionyl-tRNA synthetase, MetRS, MARS

Target/Specificity

MARS (NP_004981, 801 a.a. ~ 899 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IF~~1:50~200

E~~N/A

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

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

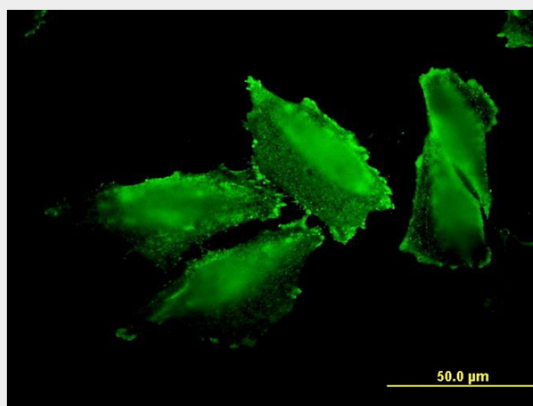
MARS Antibody (monoclonal) (M01) - Protocols

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

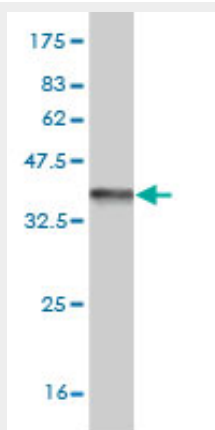
- [Western Blot](#)
- [Blocking Peptides](#)

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

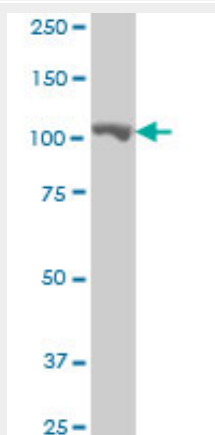
MARS Antibody (monoclonal) (M01) - Images



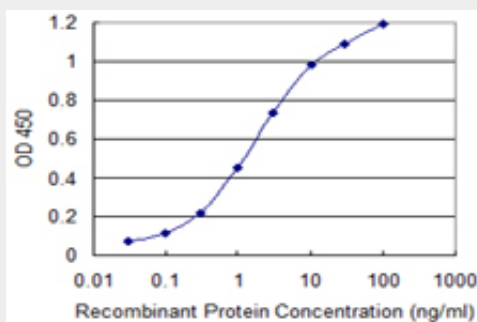
Immunofluorescence of monoclonal antibody to MARS on HepG2 cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



MARS monoclonal antibody (M01), clone 5G5 Western Blot analysis of MARS expression in HepG2 (Cat # AT2805a)



Detection limit for recombinant GST tagged MARS is 0.03 ng/ml as a capture antibody.

MARS Antibody (monoclonal) (M01) - Background

Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene belongs to the class I family of tRNA synthetases.

MARS Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121. Polymorphisms in mitochondrial genes and prostate cancer risk. Wang L, et al. Cancer Epidemiol Biomarkers Prev, 2008 Dec. PMID 19064571. Two non-redundant fragments in the N-terminal peptide of human cytosolic methionyl-tRNA synthetase were indispensable for the multi-synthetase complex incorporation and enzyme activity. He R, et al. Biochim Biophys Acta, 2009 Feb. PMID 19064003. Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.