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MARS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MARS.
Catalog # AT2805a

Specification

MARS Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, 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

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

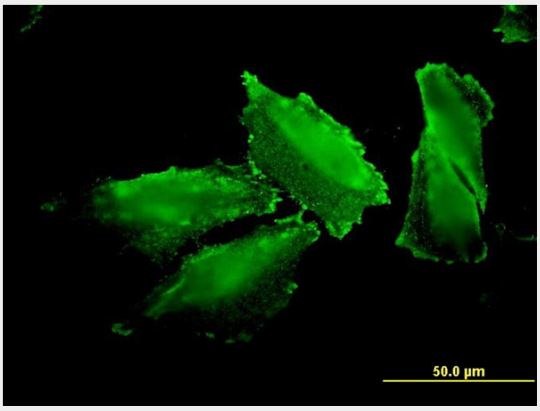
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

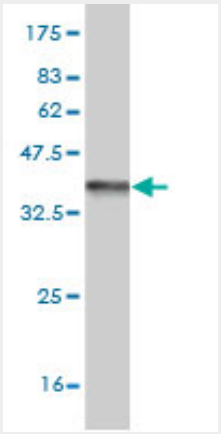
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

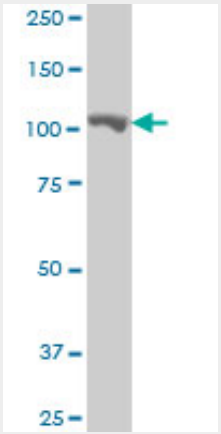
MARS Antibody (monoclonal) (M01) - Images



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

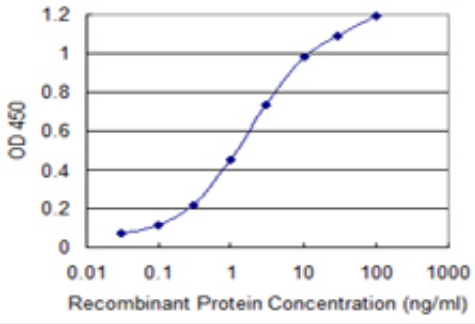


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



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

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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 Thiazolinedinedione-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.