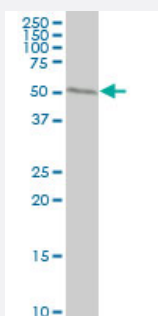


WARS monoclonal antibody (M02), clone 3A12

Catalog # H00007453-M02

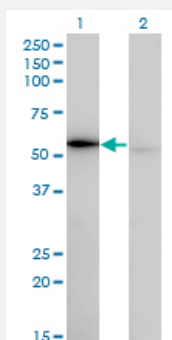
Size 100 ug

Applications



Western Blot (Cell lysate)

WARS monoclonal antibody (M02), clone 3A12 Western Blot analysis of WARS expression in HeLa (Cat # L013V1).

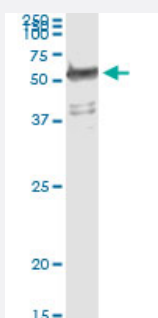


Western Blot (Transfected lysate)

Western Blot analysis of WARS expression in transfected 293T cell line by WARS monoclonal antibody (M02), clone 3A12.

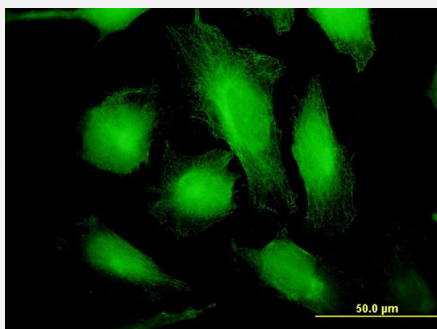
Lane 1: WARS transfected lysate(53.2 KDa).

Lane 2: Non-transfected lysate.



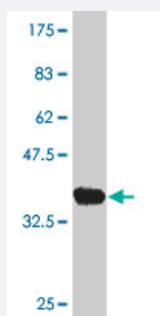
Immunoprecipitation

Immunoprecipitation of WARS transfected lysate using anti-WARS monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with WARS MaxPab rabbit polyclonal antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to WARS on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant WARS.
Immunogen	WARS (NP_004175, 50 a.a. ~ 149 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	YKAAAGEDYKADCPPGNPAPTSNHGPDTEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDA
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (84); Rat (84)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

WARS monoclonal antibody (M02), clone 3A12 Western Blot analysis of WARS expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of WARS expression in transfected 293T cell line by WARS monoclonal antibody (M02), clone 3A12.

Lane 1: WARS transfected lysate(53.2 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of WARS transfected lysate using anti-WARS monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with WARS MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to WARS on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — WARS

Entrez GeneID	7453
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GeneBank Accession#	NM_004184
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Protein Accession#	NP_004175
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Gene Name	WARS
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Gene Alias	GAMMA-2, IFI53, IFP53
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Gene Description	tryptophanyl-tRNA synthetase
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Omim ID [191050](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family. Four transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]

Other Designations interferon-induced protein 53|tryptophan tRNA ligase 1, cytoplasmic

Pathway

- [Aminoacyl-tRNA biosynthesis](#)
- [Tryptophan metabolism](#)

Disease

- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Myocardial Infarction](#)