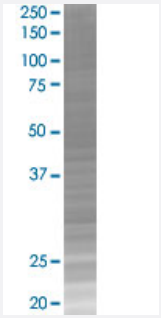
WARS 293T Cell Transient Overexpression Lysate(Denatured)

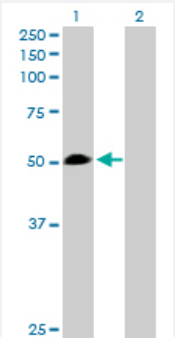
Catalog # H00007453-T02 Size 100 uL

Applications



SDS-PAGE Gel

WARS transfected lysate.



Western Blot

Lane 1: WARS transfected lysate (53.20 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-WARS full-length
Host	Human
Theoretical MW (kDa)	53.2
Interspecies Antigen Sequence	Mouse (90); Rat (89)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-WARS antibody (H00007453-D01P) by Western Blots. SDS-PAGE Gel WARS transfected lysate. Western Blot Lane 1: WARS transfected lysate (53.20 KDa) Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — WARS

Entrez GeneID	7453
GeneBank Accession#	NM_004184
Protein Accession#	NP_004175.2
Gene Name	WARS
Gene Alias	GAMMA-2, IFI53, IFP53
Gene Description	tryptophanyl-tRNA synthetase
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