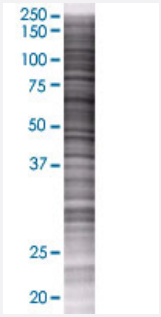
CARS 293T Cell Transient Overexpression Lysate(Denatured)

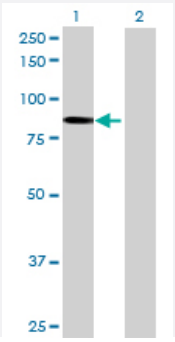
Catalog # H00000833-T01 Size 100 uL

Applications



SDS-PAGE Gel

CARS transfected lysate.



Western Blot

Lane 1: CARS transfected lysate (82.39 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-CARS full-length
Host	Human
Theoretical MW (kDa)	82.39
Interspecies Antigen Sequence	Mouse (90); Rat (90)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-CARS antibody (H00000833-B01) by Western Blots. SDS-PAGE Gel CARS transfected lysate. Western Blot Lane 1: CARS transfected lysate (82.39 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 — CARS

Entrez GeneID	833
GeneBank Accession#	NM_001751.4
Protein Accession#	NP_001742.1
Gene Name	CARS
Gene Alias	CARS1, CYSRS, MGC:11246
Gene Description	cysteinyl-tRNA synthetase
Omim ID	123859
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a class 1 aminoacyl-tRNA synthetase, cysteinyl-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid. This gene is one of several located near the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq
Other Designations	OTTHUMP00000012605|cysteine tRNA ligase 1, cytoplasmic|cysteine translase|cysteine-tRNA ligase

Pathway

- Aminoacyl-tRNA biosynthesis

Disease

- Diabetes Mellitus
- Diabetic Nephropathies
- Genetic Predisposition to Disease
- Kidney Failure
- Proteinuria