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KD-Validated Anti-Cysteinyl-TRNA Synthetase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1297

Specification

KD-Validated Anti-Cysteinyl-TRNA Synthetase 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P49589
Reactivity	**Rat, Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 85 kDa; observed, 75 kDa KDa**
Gene Name	**CARS1**
Aliases	**CARS1; Cysteinyl-TRNA Synthetase 1; CARS; Cysteine TRNA Ligase1,Cytoplasmic; Cysteine--TRNA Ligase, Cytoplasmic; Cysteinyl-TRNA Synthetase; EC 6.1.1.16; Cysteine Translase; MGC:11246; EC 6.1.1; MCDDBH; CYSRS; CysRS; MDBH**
Immunogen	**A synthesized peptide derived from human CARS**

KD-Validated Anti-Cysteinyl-TRNA Synthetase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**833**

Other Names
Cysteine--tRNA ligase, cytoplasmic, 6.1.1.16, Cysteinyl-tRNA synthetase, CysRS, CARS1 (HGNC:1493), CARS

KD-Validated Anti-Cysteinyl-TRNA Synthetase 1 Rabbit Monoclonal Antibody - Protein Information

Name CARS1 (HGNC:1493)

Synonyms CARS

Function
Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).

Cellular Location
Cytoplasm.

KD-Validated Anti-Cysteinyl-TRNA Synthetase 1 Rabbit Monoclonal Antibody - Protocols

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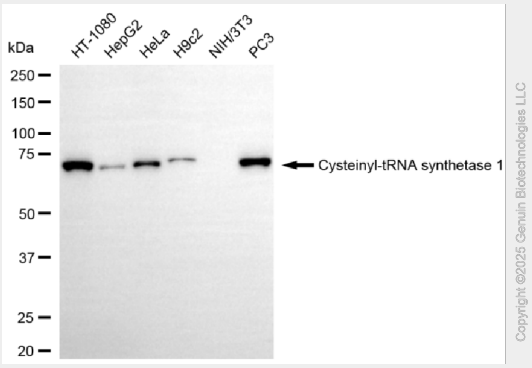
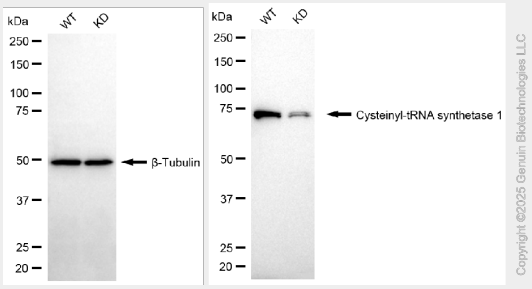
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

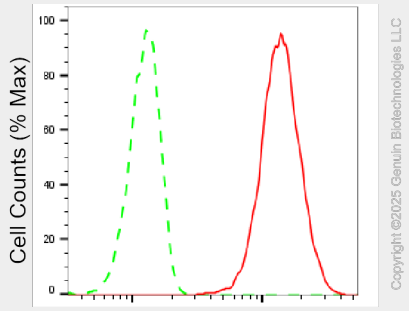
KD-Validated Anti-Cysteinyl-TRNA Synthetase 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-cysteinyl-tRNA synthetase 1 antibody (Cat#AGI1297). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-cysteinyl-tRNA synthetase 1 antibody (Cat#AGI1297, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-cysteinyl-tRNA synthetase 1 antibody (Cat#AGI1297). Cysteinyl-tRNA synthetase 1 expression in wild-type (WT) and cysteinyl-tRNA synthetase 1 (CARS1) knockdown (KD) HSHC cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-cysteinyl-tRNA synthetase 1 antibody (Cat#AGI1297, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Cysteinyl-tRNA synthetase 1-Alexa Fluor® 647

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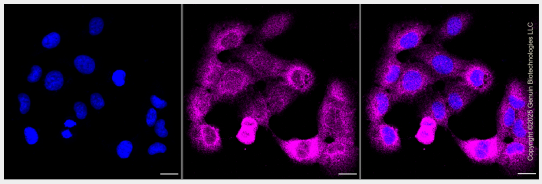
Flow cytometric analysis of Cysteinyl-tRNA synthetase 1 expression in HT-1080 cells using anti-Cysteinyl-tRNA synthetase 1 antibody (Cat#AGI1297, 1:2,000). Green, isotype control; red, Cysteinyl-tRNA synthetase 1.



Immunocytochemical staining of HT-1080 cells with anti-Cysteinyl-tRNA synthetase 1 antibody (Cat#AGI1297, 1:1,000). Nuclei were stained blue with DAPI; Cysteinyl-tRNA synthetase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.