

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

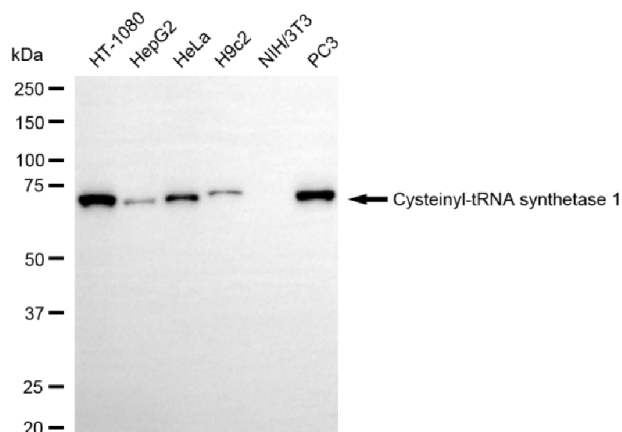
ABG1297

Product Overview

Name	KD-Validated Anti-CysteinyI-TRNA Synthetase 1 Rabbit Monoclonal Antibody
Accession(Primary)	P49589
Host Species	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Immunogen	A synthesized peptide derived from human CARS
Species Reactivity	Human, Rat
Calculated MW	Predicted, 85 kDa; observed, 75 kDa
Storage Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Recommended Dilution	Western blotting (WB): 1:1,000-1:5,000Flow Cytometry (FCM): 1:2,000Immunocytochemistry (IC): 1:100-1:1,000

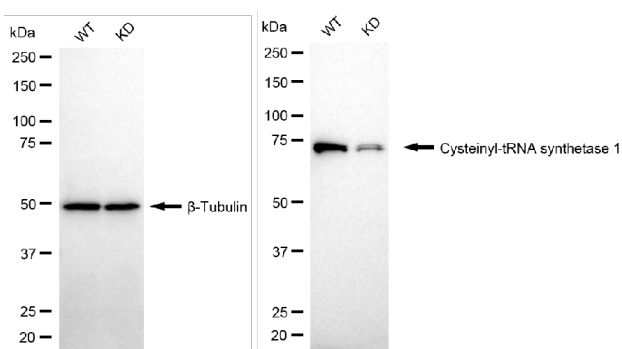
Target information (P49589)

Gene Name	CARS1
About Gene Symbol	CARS1 (CysteinyI-TRNA Synthetase 1) is a biosynthetic enzyme involved in cellular metabolism. It is an important research target in metabolic disease, cancer metabolism, and drug discovery and is widely studied to elucidate cellular mechanisms and identify therapeutic targets.



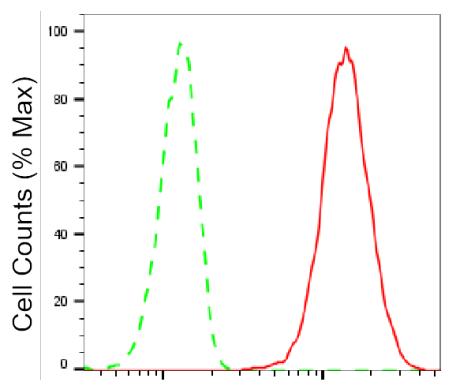
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Western blotting analysis using anti-cysteinyI-tRNA synthetase 1 antibody (Cat#ABG1297). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-cysteinyI-tRNA synthetase 1 antibody (Cat#ABG1297, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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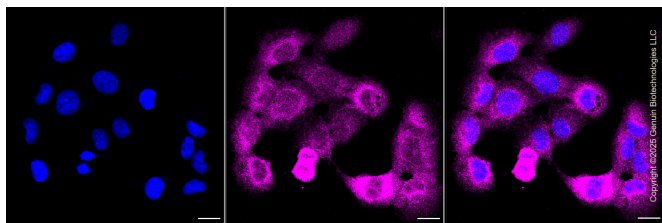
Western blotting analysis using anti-cysteinyI-tRNA synthetase 1 antibody (Cat#ABG1297). CysteinyI-tRNA synthetase 1 expression in wild-type (WT) and cysteinyI-tRNA synthetase 1 (CARS1) knockdown (KD) HSHC cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-cysteinyI-tRNA synthetase 1 antibody (Cat#ABG1297, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of CysteinyI-tRNA synthetase 1 expression in HT-1080 cells using anti-CysteinyI-tRNA synthetase 1 antibody (Cat#ABG1297, 1:2,000). Green, isotype control; red, CysteinyI-tRNA synthetase 1.

CysteinyI-tRNA synthetase 1-Alexa Fluor® 647



Immunocytochemical staining of HT-1080 cells with anti-CysteinyI-tRNA synthetase 1 antibody (Cat#ABG1297, 1:1,000). Nuclei were stained blue with DAPI; CysteinyI-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 μ m.