

KD-Validated Anti-Lysyl-tRNA Synthetase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

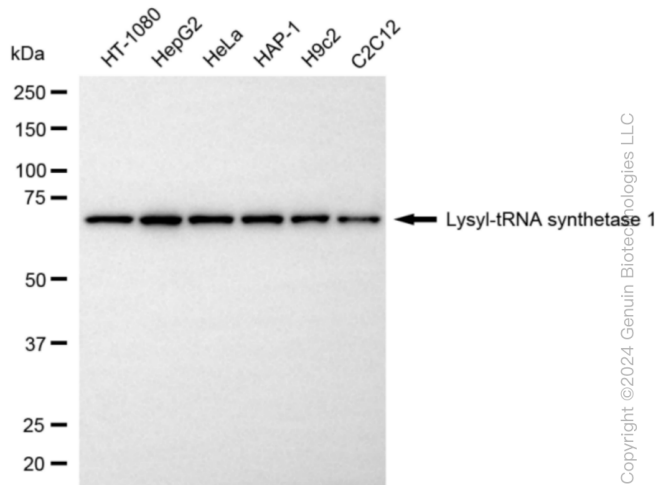
ABG1074

Product Overview

Name	KD-Validated Anti-Lysyl-tRNA synthetase 1 Rabbit Monoclonal Antibody
Accession(Primary)	Q15046
Host Species	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Immunogen	A synthesized peptide derived from human LysRS
Species Reactivity	Human, Mouse, Rat
Calculated MW	Predicted, 68 kDa, observed, 73 kDa
Storage Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Recommended Dilution	Western Blotting (WB): 1:1,000-1:5,000 Flow Cytometry (FCM): 1:2,000 Immunocytochemistry (IC): 1:100-1:1,000

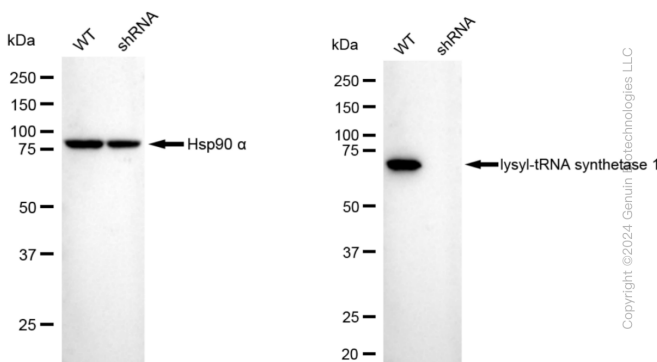
Target information (Q15046)

Gene Name	KARS1
About Gene Symbol	KARS1 (Lysyl-TRNA Synthetase 1) is a biosynthetic enzyme involved in cellular metabolism. It is an important research target in hearing loss and is widely studied to elucidate cellular mechanisms and identify therapeutic targets.



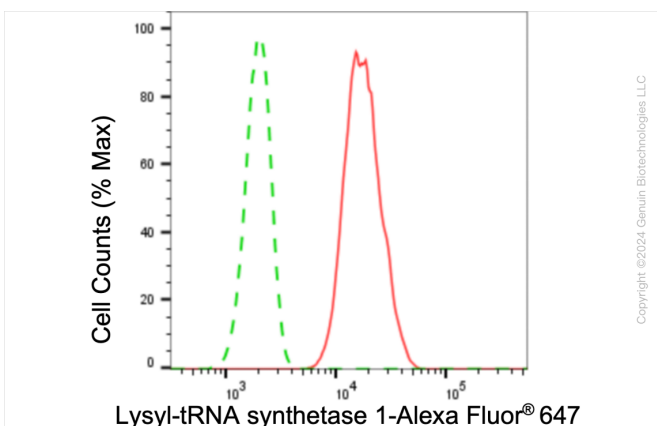
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Western blotting analysis using anti-lysyl-tRNA synthetase 1 antibody (Cat#ABG1074). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-lysyl-tRNA synthetase 1 antibody (Cat#ABG1074, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



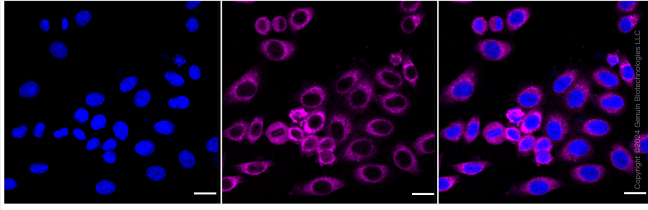
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Western blotting analysis using anti-lysyl-tRNA synthetase 1 antibody (Cat#ABG1074). Lysyl-tRNA synthetase 1 expression in wild-type (WT) and lysyl-tRNA synthetase 1 (KARS1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-lysyl-tRNA synthetase 1 antibody (Cat#ABG1074, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of lysyl-tRNA synthetase 1 expression in HepG2 cells using lysyl-tRNA synthetase 1 antibody (ABG1074, 1:2,000). Green, isotype control; red, lysyl-tRNA synthetase 1.



Immunocytochemical staining of HepG2 cells with anti-lysyl-tRNA synthetase 1 antibody (Cat#ABG1074, 1:1,000). Nuclei were stained blue with DAPI; Lysyl-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: High. Scale bar: 20 μ m.