KD-Validated Anti-GARS Recombinant Rabbit Monoclonal Antibody

Catalog #: 62003

Aliases

GARS1; Glycyl-TRNA Synthetase 1; GlyRS; DSMAV; SMAD1; GARS; Diadenosine Tetraphosphate Synthetase; Charcot-Marie-Tooth Neuropathy 2D; Glycyl-TRNA Synthetase; Glycine--TRNA Ligase; Ap4A Synthetase; EC 6.1.1.14; CMT2D; Charcot-Marie-Tooth Neuropathy, Neuronal Type, D; Glycine TRNA Ligase; AP-4-A Synthetase; EC 2.7.7.-; HMN5A; SMAJI; GLYRS; HMN5

Background

Gene Name: GARS1
NCBI Gene Entry: 2617
UniProt Entry: P41250

Application Information

Molecular Weight: Predicted, 83 kDa, observed, 75 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 23GB5515
Species Reactivity: Human, mouse, rat
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human GARS

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000
Flow Cytometry (FCM): 1:2,000
Immunocytochemistry (IC): 1:100-1:1,000

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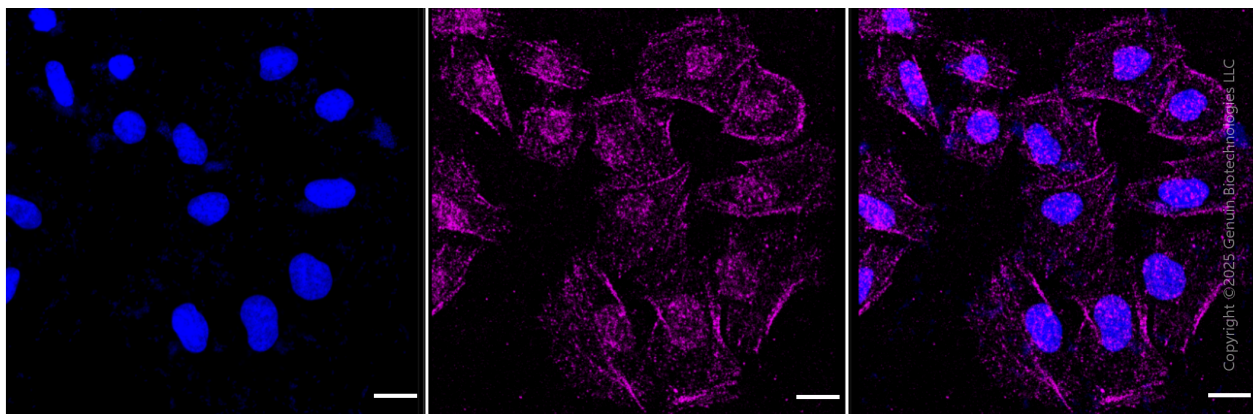
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Note: This product is for research use only.

Validation Data

Immunocytochemical staining of H9C2 cells with anti-GARS antibody (Cat #62003, 1:1,000) . Nuclei were stained blue with DAPI; GARS was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 μm.
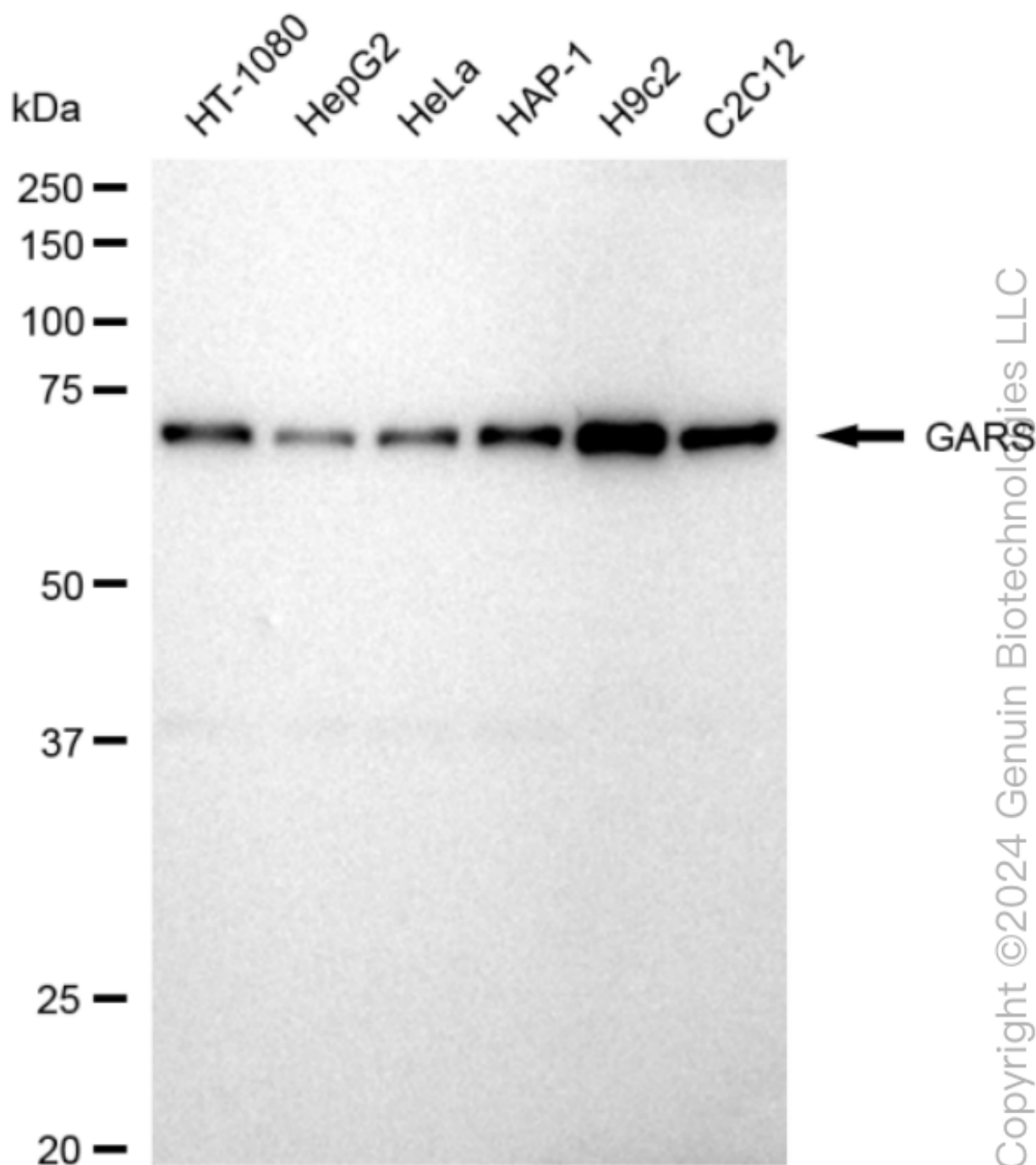
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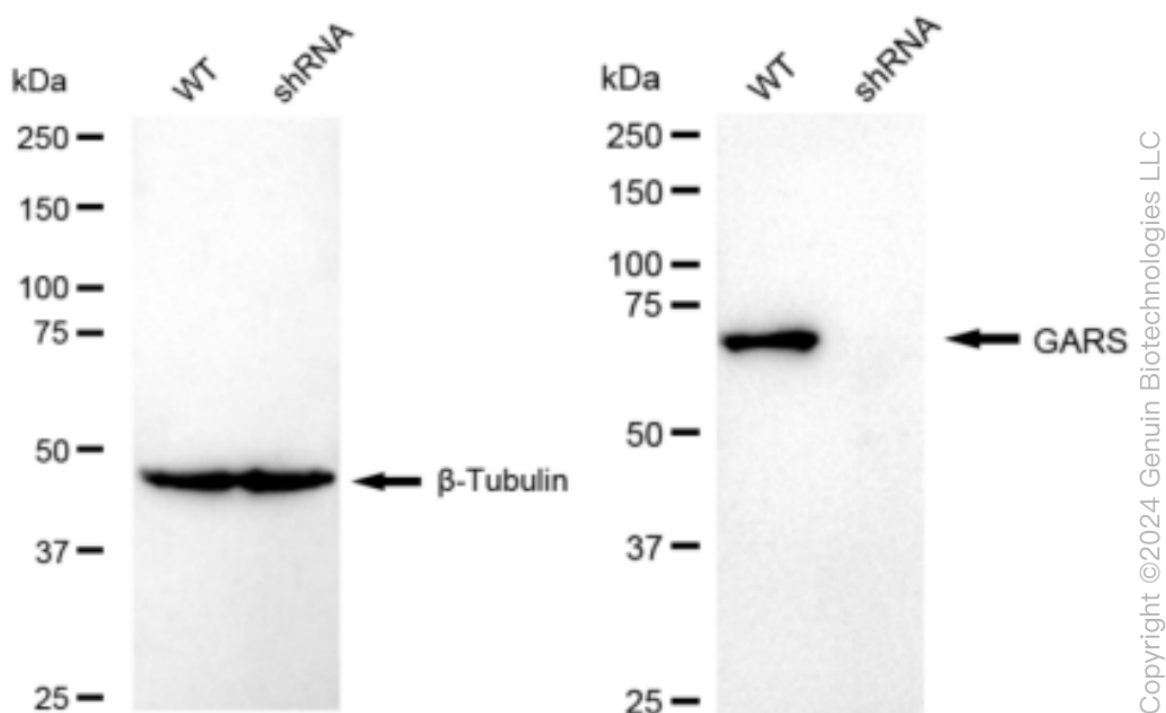
Western blotting analysis using anti-GARS antibody (Cat#62003). Total cell lysates (30 μg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-GARS antibody (Cat#62003, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

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Western blotting analysis using anti-GARS antibody (Cat#62003). GARS expression in wild type (WT) and GARS shRNA knockdown (KD) HeLa cells with 30 μg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-GARS antibody (Cat#62003, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).
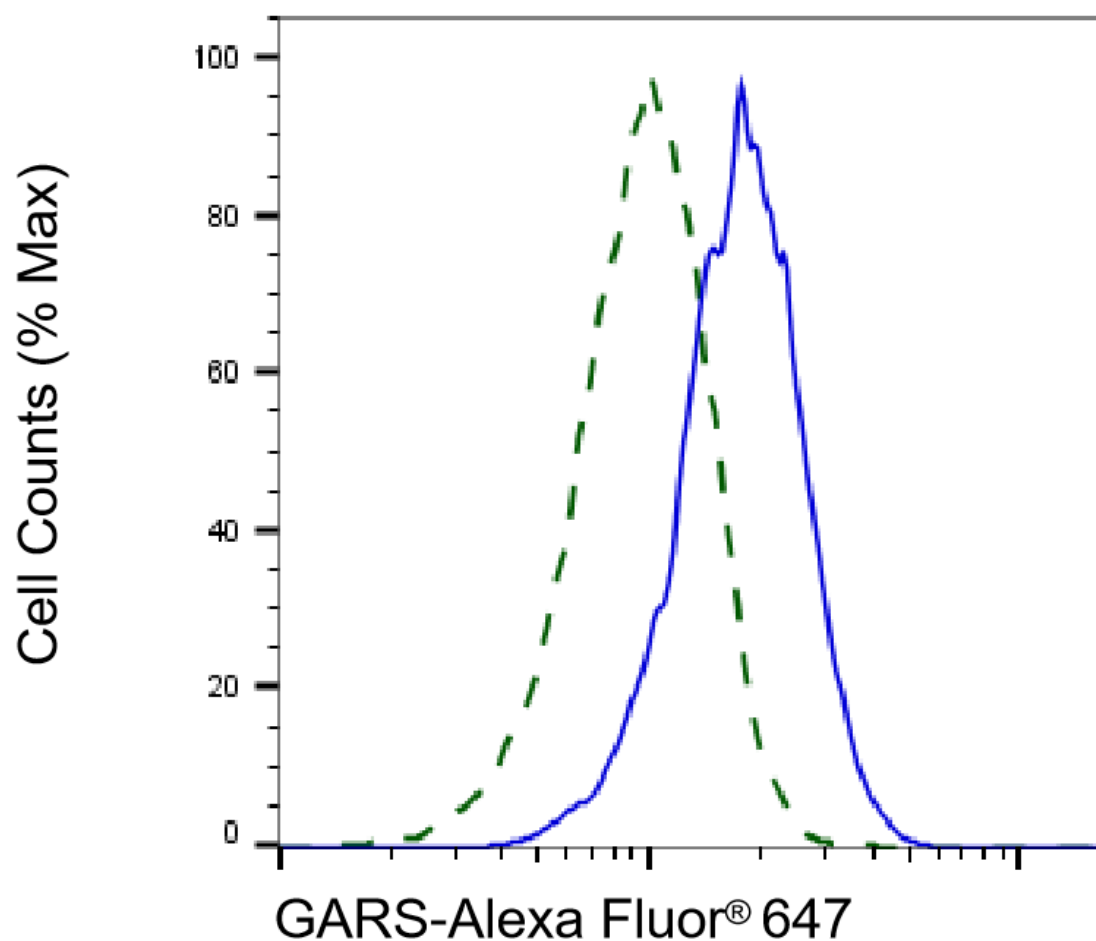

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Validation of GARS knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with anti-GARS antibody (Cat#62003, 1:2,000) and analyzed using BD flow cytometer.