

KD-Validated Anti-HARS1 Mouse Monoclonal Antibody

Mouse monoclonal antibody Catalog # AGI1970

Specification

KD-Validated Anti-HARS1 Mouse Monoclonal Antibody - Product Information

Application WB, FC, ICC
Primary Accession P12081
Reactivity Human
Clonality Monoclonal
Isotype Mouse IgG1

Calculated MW Predicted, 57 kDa, observed, 50 kDa KDa

Gene Name HARS1

Aliases HARS1; Histidyl-TRNA Synthetase 1; HisRS;

HARS; Histidine--TRNA Ligase,

Cytoplasmic; Histidyl-TRNA Synthetase; EC 6.1.1.21; USH3B; HRS; Histidine TRNA Ligase 1, Cytoplasmic; Histidine Translase; Usher Syndrome 3B; Jo-1 Antigen; Jo-1

Antigen; CMT2W

Immunogen Recombinant protein of human HARS

KD-Validated Anti-HARS1 Mouse Monoclonal Antibody - Additional Information

Gene ID **3035**

Other Names

Histidine--tRNA ligase, cytoplasmic, 6.1.1.21, Histidyl-tRNA synthetase, HisRS, HARS1 (HGNC:4816), HARS, HRS

KD-Validated Anti-HARS1 Mouse Monoclonal Antibody - Protein Information

Name HARS1 (HGNC:4816)

Synonyms HARS, HRS

Function

Catalyzes the ATP-dependent ligation of histidine to the 3'- end of its cognate tRNA, via the formation of an aminoacyl-adenylate intermediate (His-AMP) (PubMed:29235198). Plays a role in axon guidance (PubMed:26072516).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:F1Q5D5}.

Tissue Location

Brain, heart, liver and kidney.

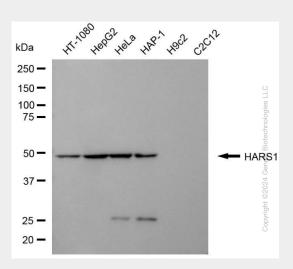


KD-Validated Anti-HARS1 Mouse Monoclonal Antibody - Protocols

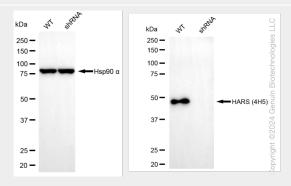
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

KD-Validated Anti-HARS1 Mouse Monoclonal Antibody - Images

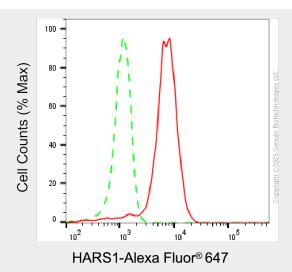


Western blotting analysis using anti-HARS1 antibody (Cat#AGI1970). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-HARS1 antibody (Cat#AGI1970, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

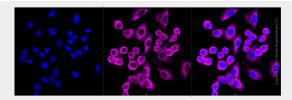


Western blotting analysis using anti-HARS1 antibody (Cat#AGI1970). HARS1 expression in wild-type (WT) and HARS1 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-HARS1 antibody (Cat#AGI1970, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.





Flow cytometric analysis of HARS1 expression in HepG2 cells using anti-HARS1 antibody (Cat#AGI1970, 1:2,000). Green, isotype control; red, HARS1.



Immunocytochemical staining of HepG2 cells with anti-HARS1 antibody (Cat#AGI1970, 1:1,000). Nuclei were stained blue with DAPI; HARS1 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, $20~\mu m$.