

## Product datasheet for **AM50342PU-S**

### GARS Mouse Monoclonal Antibody [Clone ID: AT4E10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT4E10
Applications:	ELISA, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:500
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human GARS (43-289aa) purified from E. coli.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glycyl-tRNA synthetase
Database Link:	<a href="#">Entrez Gene 2617 Human P41250</a>



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**Background:**

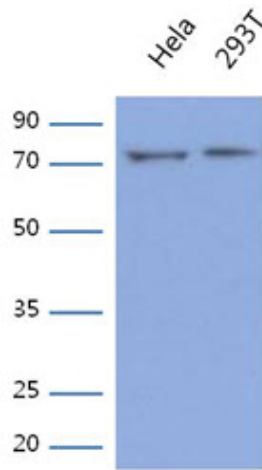
GARS, also known as glycyl-tRNA synthetase, is one of the aminoacyl-tRNA synthetase that charge tRNAs with their cognate amino acids. Defects in the gene encoding GlyRS is the cause of Charcot-Marie-Tooth disease type 2D (CMT2D), which is an autosomal dominant inherited disease characterized by severe weakness, atrophy and absence of deep tendon reflexes in the upper extremities. Defects in the GlyRS gene is also the cause of distal hereditary muscular neuropathy type V (HMN5), a disease similar to CMT2D, though the distal sensory involvement is less severe in HMN5 patients.

**Synonyms:**

GARS, Glycine-tRNA ligase, GlyRS, AP-4-A synthetase, SMAD1

**Protein Pathways:**

Aminoacyl-tRNA biosynthesis

**Product images:**

The cell lysates of HeLa and 293T (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GARS antibody 1:500. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.