

Mouse anti-Human Glycyl-TRNA Synthetase Monoclonal Antibody | anti-GARS antibody

Mouse Anti Human Glycyl-TRNA Synthetase

CATALOG # AAA37976	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

Glycyl-TRNA Synthetase; Monoclonal Antibody; Mouse Anti Human Glycyl-TRNA Synthetase; Glycine--tRNA ligase; Diadenosine tetraphosphate synthetase; AP-4-A synthetase; Glycyl-tRNA synthetase; GlyRS; GARS; CMT2D; DSMAV; HMN5; SMAD1.; anti-GARS antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 heavy chain and k light chain.
Clone Number	PAT4E10AT
Purity/Purification	GARS antibody was purified from mouse ascitic fluids by protein -A affinity chromatography.
Form/Format	1mg/ml containing PBS, pH-7.4, 10% Glycerol and 0.02% Sodium Azide. Sterile filtered colorless solution.
Sequence Length	739
Applicable Applications for anti-GARS antibody	WB (Western Blot), ELISA
Type	Mouse Anti Human Monoclonal
Immunogen	Anti-human GARS mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human GARS amino acids 43-289 purified from E Coli.
Preparation and Storage	Storage: For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles. Stability: 12 months at -20°C. 1 month at 4°C.

ADDITIONAL INFORMATION

Related Product Information for anti-GARS antibody	GARS is an (alpha)2 dimer which is a member of the class II family of tRNA synthetases. GARS is a glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases which charge tRNAs with their cognate amino acids. GARS catalyzes the attachment of glycine to tRNA(Gly). In addition, GARS is able to produce diadenosine tetraphosphate (Ap4A), which is a universal pleiotropic signaling molecule required for cell regulation pathways, by direct condensation of two ATPs. GARS has been demonstrated to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis.
Product Categories/Family for anti-GARS antibody	Monoclonal Antibodies ; Anti-Human Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	1311463
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NCBI GeneID	2617
NCBI Official Full Name	glycyl tRNA synthetase
NCBI Official Synonym Full Names	glycyl-tRNA synthetase
NCBI Official Symbol	GARS
NCBI Official Synonym Symbols	HMN5; CMT2D; DSMAV; GlyRS; SMAD1
NCBI Protein Information	glycine--tRNA ligase
UniProt Protein Name	Glycine--tRNA ligase
UniProt Gene Name	GARS
UniProt Synonym Gene Names	AP-4-A synthetase; GlyRS
UniProt Entry Name	SYG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/glycyl-trna-synthetase-antibody-clone-pat4e10at-western-blot-elisa/37976>