

Rabbit GARS Polyclonal Antibody | anti-GARS antibody

GARS Antibody

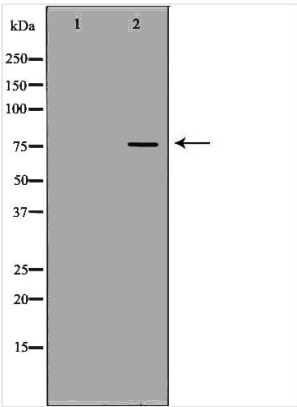
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327041	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

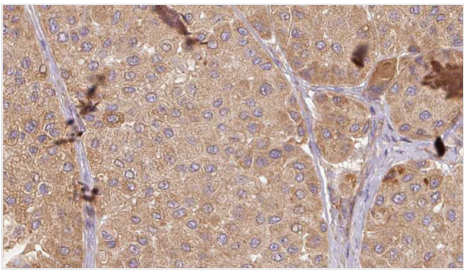
GARS; Polyclonal Antibody; GARS Antibody; AP 4 A synthetase; Charcot Marie Tooth neuropathy 2D; Charcot Marie Tooth neuropathy neuronal type D; CMT2D; Diadenosine tetraphosphate synthetase; DSMAV; EC 6.1.1.14; Glycine tRNA ligase; Glycyl tRNA synthetase; GlyRS; HMN5; SMAD1; anti-GARS antibody

PRODUCT SPECIFICATIONS

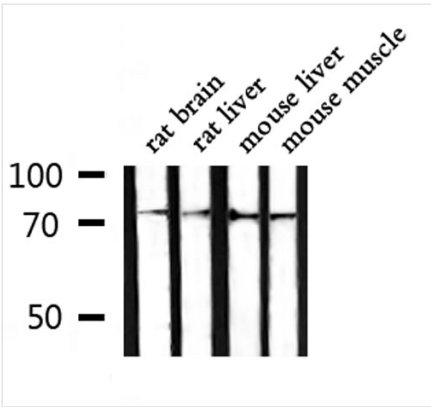
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GARS antibody detects endogenous levels of total GARS
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	685
Applicable Applications for anti-GARS antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GARS
Subcellular Location	Cytoplasm. Mitochondrion.
Tissue Specificity	Widely expressed, including in brain and spinal cord.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



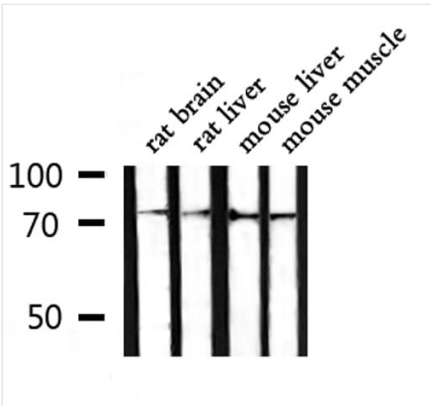
WB (Western Blot)
Western blot analysis of HEK293 cell lysate, using GARS Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA327041 at 1/100 staining Human Melanoma tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from rat spleen, using GARS Antibody.



WB (Western Blot)
Western blot analysis of extracts from rat brain, rat liver, mouse liver, mouse muscle, using GARS Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GARS antibody	Description: This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha)₂ dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Function: Catalyzes the ligation of glycine to the 3'-end of its cognate tRNA. Also produces diadenosine tetraphosphate (Ap₄A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs. Subunit Structure: Homodimer. Similarity: Belongs to the class-II aminoacyl-tRNA synthetase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	943350815
NCBI GeneID	2617
NCBI Accession #	NP_001303701.1
NCBI GenBank Nucleotide #	NM_001316772.1
UniProt Accession #	P41250; Q969Y1; B3KQA2; B4DIA0
Molecular Weight	Observed: 75 kDa Predicted: 84 kDa

NCBI Official Full Name	glycine--tRNA ligase isoform 2
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

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/polyclonal/gars-antibody-immunohistochemistry-western-blot-elisa/327041>