Datasheet for ABIN2787816

anti-GARS antibody (Middle Region)

1 Image

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Overview

Quantity:	100 µL
Target:	GARS
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio), Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GARS antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GARS
Sequence:	IEPSFGLGRI MYTVFEHTFH VREGDEQRTF FSFPAVVAPF KCSVLPLSQN
Predicted Reactivity:	Cow: 93%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against GARS. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GARS

Target Details

Alternative Name:	GARS (GARS Products)
Background:	GARS catalyzes the attachment of glycine to tRNA(Gly). Is also able produce diadenosine tetraphosphate (Ap4A), a universal pleiotropic signaling molecule needed for cell regulation pathways, by direct condensation of 2 ATPs.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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: CMT2D, DSMAV, GlyRS, HMN5, SMAD1 Protein Interaction Partner: UBC, STAU1, NEDD8, DCP2, TNRC6B, CAND1, GORASP2, CORO1C, BOP1, GANAB, XPO7, HSPA4L, VAT1, SEC23A, TOM1, KHSRP, HIRIP3, HIST1H4A, USP11, ZYX, UGDH, TTC1, TROVE2, SNX1, SHMT1, PPM1G, OSBP, NCBP1, ME1, GTF2A1, GFPT1, CTTN, CTNNA1, CARS, APEH, MAPK8, MAP3K10, Protein Size: 739
Molecular Weight:	83 kDa
Gene ID:	2617
NCBI Accession:	NM_002047, NP_002038
UniProt:	P41250
Pathways:	Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 739 AA
Restrictions:	For Research Use only

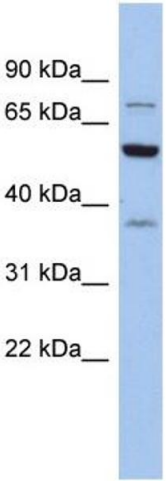
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-GARS Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: MCF7 cell lysate