GART Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GART, Polyclonal Antibody
Full Product Name	GART Rabbit pAb
Product Gene Name	anti-GART antibody
Product Synonym Names	GARS; GART; AIRS; PRGS; Trifunctional purine biosynthetic protein adenosine 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	107kDa
OMIM	138440
3D Structure	ModBase 3D Structure for P22102
Immunogen	A synthesized peptide derived from human GART
Cellular Localization	Membrane, Multi-Pass Membrane Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GART antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-GART antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200 IP: 1:50
Related Product Information for anti-GART antibody	This protein is involved in step 2 of the subpathway that synthesizes 5-amino-1-(5-phospho-D-ribosyl)imidazole from N(2)-formyl-N(1)-(5-phospho-D-ribosyl)glycinamide. This protein is involved in step 2 of the subpathway that synthesizes N(1)-(5-phospho-D-ribosyl)glycinamide from 5-phospho-alpha-D-ribose 1-diphosphate. Involved in step 1 of the subpathway that synthesizes N(2)-formyl-N(1)-(5-phospho-D-ribosyl)glycinamide from N(1)-(5-phospho-D-ribosyl)glycinamide (10-formyl THF route).
Other Notes	Small volumes of anti-GART antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GART purchase	MBS8542711 is an antibody targeting GART. Also known as GART Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GART. It may not necessarily be applicable to this product.

NCBI GI #	131616

NCBI GeneID	2618
NCBI Accession #	P22102.1
UniProt Primary Accession #	P22102
UniProt Related Accession #	P22102
NCBI Official Full Name	Trifunctional purine biosynthetic protein adenosine-3
NCBI Official Synonym Full Names	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase
NCBI Official Symbol	GART
NCBI Official Synonym Symbols	AIRS; GARS; PAIS; PGFT; PRGS; GARTF
UniProt Protein Name	Trifunctional purine biosynthetic protein adenosine-3
UniProt Synonym Protein Names	Glycinamide ribonucleotide synthetase; GARS; Phosphoribosylglycinamide synthetase
Protein Family	Phosphoribosylglycinamide formyltransferase
UniProt Gene Name	GART
UniProt Synonym Gene Names	PGFT; PRGS; GARS; AIRS; GART
UniProt Entry Name	PUR2_HUMAN
NCBI Protein Information	trifunctional purine biosynthetic protein adenosine-3
NCBI Summary for GART	The protein encoded by this gene is a trifunctional polypeptide. It has phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase activity which is required for de novo purine biosynthesis. This enzyme is highly conserved in vertebrates. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for GART	GART: a highly conserved trifunctional enzyme. It has phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase activity which is required for de novo purine biosynthesis. Inhibition of the de novo purine synthesis by folate analogs blocks the p53-dependent G1 checkpoint in human carcinoma cell lines. Two splice variant isoforms have been described. Protein type: Methyltransferase; Ligase; EC 6.3.3.1; Nucleotide Metabolism - purine; EC 2.1.2.2; EC 6.3.4.13; Cofactor and Vitamin Metabolism - one carbon pool by folate; Mitochondrial; Enzyme, cellular metabolism Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: cytosol Molecular Function: methyltransferase activity; metal ion binding; phosphoribosylamine-glycine ligase activity; phosphoribosylformylglycinamidine cyclo-ligase activity; phosphoribosylglycinamide formyltransferase activity; ATP binding Biological Process: methylation; response to organic substance; purine ribonucleoside monophosphate biosynthetic process; glycine metabolic process; tetrahydrofolate biosynthetic process; response to inorganic substance; purine base biosynthetic process; nucleobase, nucleoside and nucleotide metabolic process; cerebellum development; cerebral cortex development; purine base metabolic process; 'de novo' IMP biosynthetic process
Research Articles on GART	**1.** GART expression is up-regulated in patients with active colitis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/gart/8542711