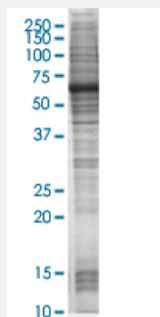


# GART HEK293 Cell Transient Overexpression Lysate(Non-Denatured)

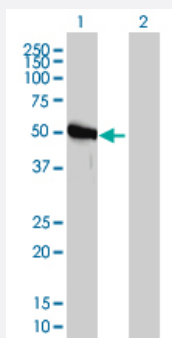
Catalog # L101T6      Size 100 ug

## Applications



### SDS-PAGE Gel

GART transfected lysate



### Western Blot

Lane 1: GART transfected lysate ( 46 KDa).

Lane 2: Non-transfected lysate.

## Specification

|                       |                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Transfected Cell Line | HEK293                                                                                                                                |
| Plasmid               | pCMV-GART full length                                                                                                                 |
| Host                  | Human                                                                                                                                 |
| Theoretical MW (kDa)  | 46                                                                                                                                    |
| Lysis Buffer          | Modified RIPA Lysis Buffer:50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF. |
| Concentration         | 2 mg/ml                                                                                                                               |

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-GART antibody ([H00002618-M01](#)) by Western Blots.  
SDS-PAGE Gel  
GART transfected lysate  
Western Blot  
Lane 1: GART transfected lysate ( 46 KDa).  
Lane 2: Non-transfected lysate.

**Recommend Usage**

Use it directly for immuno-precipitation, or heat lysate with SDS gel loading buffer to 95°C for 5 minutes followed by rapid cooling for western blot application. If dissociating conditions are required, add reducing agent prior to heating.

**Storage Buffer**

In modified RIPA Lysis Buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot
- Immunoprecipitation

[Protocol Download](#)

## Gene Info — GART

Entrez GeneID [2618](#)

GeneBank Accession# [BC038958](#)

Protein Accession# [AAH38958](#)

Gene Name GART

Gene Alias AIRS, GARS, GARTF, MGC47764, PAIS, PGFT, PRGS

Gene Description phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase

Omim ID [138440](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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]

**Other Designations**

OTTHUMP00000068280|OTTHUMP00000068281|OTTHUMP00000068282|OTTHUMP00000068337|trifunctional purine biosynthetic protein adenosine-3

**Pathway**

- [Metabolic pathways](#)
- [One carbon pool by folate](#)
- [Purine metabolism](#)

**Disease**

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Ductus Arteriosus](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Spinal Dysraphism](#)
- [Tooth Abnormalities](#)