SunLong Biotech Co.,LTD
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Mouse Anti-GART antibody

SLM-60639M

Product Name	GART
Chinese Name	甘氨酰胺核苷酸合成酶单克隆抗体
Alias	5'-phosphoribosylglycinamide transformylase; AIR synthase; AIRS; GAR transformylase; GARS; GARTF; Glycinamide ribonucleotide synthetase; MGC47764; PAIS; PGFT; Phosphoribosyl-aminoimidazole synthetase; Phosphoribosylglycinamide formyltransferase; Phosphoribosylglycinamide formyltransferase phosphoribosylglycinamide synthetase phosphoribosylaminoimidazole synthetase; Phosphoribosylglycinamide formyltransferase, EC 2.1.2.29; Phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase; Phosphoribosylglycinamide synthetase; PRGS; PUR2_HUMAN; Trifunctional purine biosynthetic protein adenosine 3.
Research Area	Tumour Cell biology Signal transduction The new supersedes the old Epigenetics
Immunogen Species	Mouse
Clonality	Monoclonal
React Species	Human, (predicted: Rat,)
Applications	WB=1:500-1000,ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	107kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GART
Lsotype	IgG1,Kappa
Purification	affinity purified by Protein A
Buffer Solution	PBS, Glycerol, BSA

Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	Purines are critical for energy metabolism, cell signaling and cell reproduction and also function as precursors for coenzymes, energy transfer molecules, regulatory factors and proteins involved in RNA and DNA synthesis. GART (GAR transformylase), also referred to as AIRS, GARS, PAIS, PGFT, PRGS or GARTF, is 1,010 amino acids in length and is a key folate-dependent trifunctional enzyme with phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase and AICAR (phosphoribosylaminoimidazole synthetase) activity required for de novo purine biosynthesis. Cancer cells require considerable amounts of purines to sustain their accelerated growth and GART is, therefore, a target for cancer chemotherapy. GART is highly conserved in vertebrates. Two isoforms of GART are expressed due to alternative splicing events. **SWISS:** P22102 **Gene ID:** 2618 **Database links:** Entrez Gene: 2618 Human Entrez Gene: 14450 Mouse Entrez Gene: 288259 Rat Omim: 138440 Human SwissProt: P22102 Human SwissProt: Q64737 Mouse Unigene: 473648 Human Unigene: 4505 Mouse

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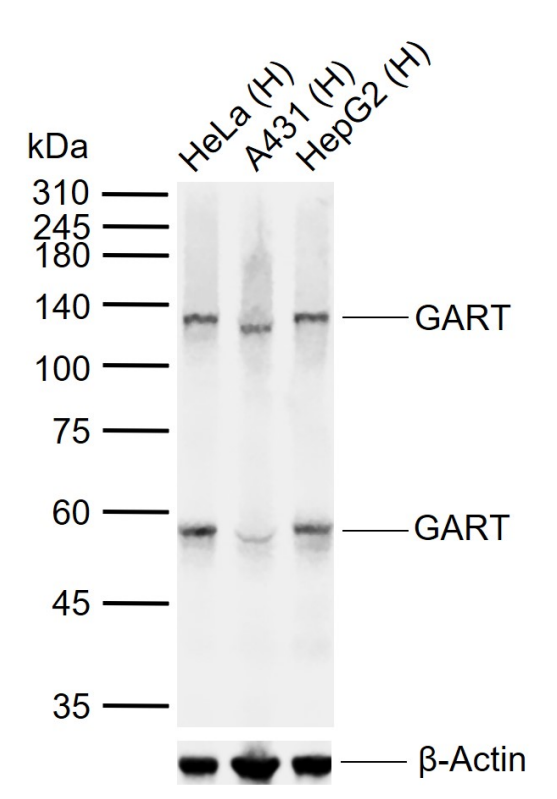
Product Picture



Sample:

Lane 1: Human HeLa cell lysates

Lane 2: Human A431 cell lysates

Lane 3: Human HepG2 cell lysates

Primary: Anti-GART (SLM-60639M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti- Mouse IgG at 1/20000 dilution

Predicted band size: 107 kDa

Observed band size: 55,130 kDa

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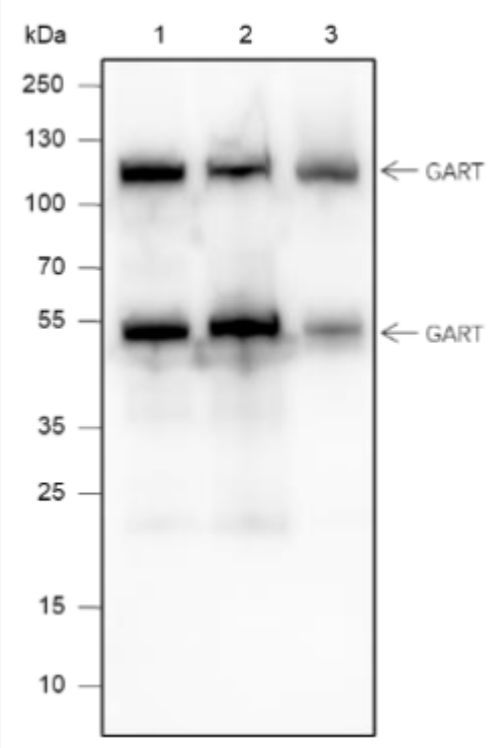


Blocking buffer: 5% NFDM/TBST

Primary Ab dilution: 1:1000

Primary Ab incubation condition: 2 hours at

room temperature

Secondary Ab: Goat Anti-Mouse IgG H&L

(HRP)

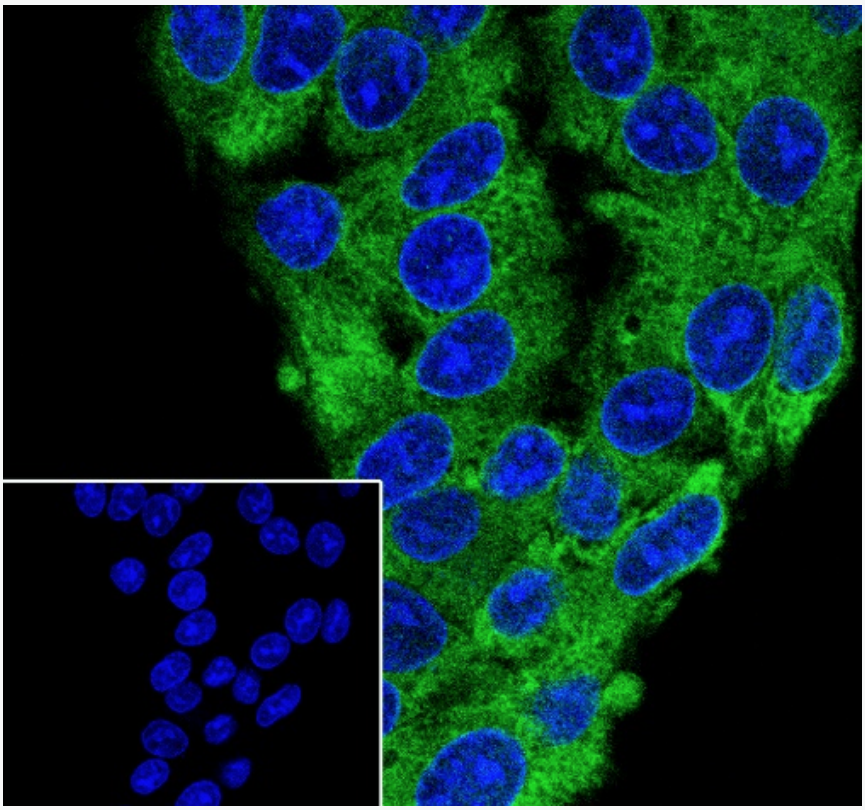
Lysate: 1: HepG2, 2: HEK-293, 3: PC-12

Protein loading quantity: 20 ug

Exposure time: 30 s

Predicted MW: 40, 108 kDa

Observed MW: 52, 120 kDa



Cell line: HepG2

Fixation: 100% Ice-cold methanol

Permeabilization: 0.1% Triton X-100

Primary Ab dilution: 1:50

Primary Ab incubation condition: 4°C

overnight

Secondary Ab: Goat Anti-Mouse IgG

Nuclear counter stain: DAPI (Blue)

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Comment: Color green is the positive signal for SLM-60639M