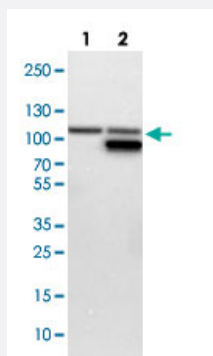


GART polyclonal antibody

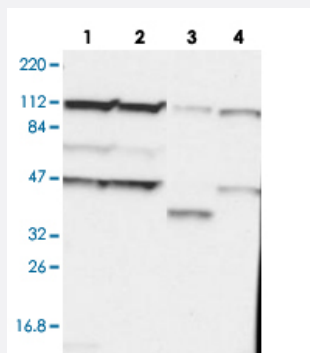
Catalog # PAB28573 Size 100 uL

Applications



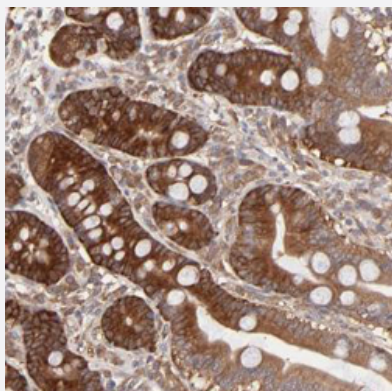
Western Blot (Cell lysate)

Western blot analysis of lane 1: NIH-3T3 and lane 2: NBT-II cell lysates using GART polyclonal antibody (Cat # PAB28573).



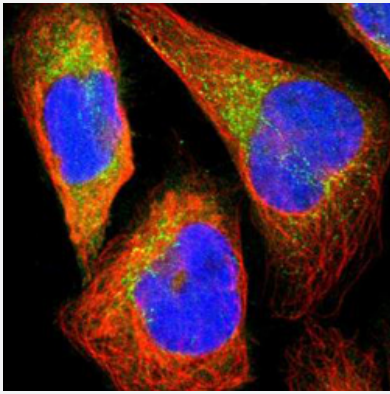
Western Blot

Western blot analysis of lane 1: RT-4, lane 2: U-251 MG, lane 3: Liver and lane 4: Tonsil using GART polyclonal antibody (Cat # PAB28573).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of human duodenum with GART polyclonal antibody (Cat # PAB28573) shows strong cytoplasmic positivity in glandular cells. Retrieval method: HIER pH6



Immunofluorescence

Immunofluorescence of U-2 OS cell line with GART polyclonal antibody (Cat # PAB28573) shows positivity in cytoplasm and mitochondria.

Fixation/Permeabilization: PFA/Triton X-103

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant GART.
Immunogen	Recombinant protein corresponding to human GART.
Sequence	IEFVVVGPEAPLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMDRHGIPTAQWKAFTKPE EACSFILSADFPALVVKASGLAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETVIEELLDGEE VSCLCFTDGKTV
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Western Blot (Human: 1:100-1:250, Mouse/Rat: 1:100-1:500) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Immunofluorescence (1-4 ug/ml) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of lane 1: NIH-3T3 and lane 2: NBT-II cell lysates using GART polyclonal antibody (Cat # PAB28573).

- Western Blot

Western blot analysis of lane 1: RT-4, lane 2: U-251 MG, lane 3: Liver and lane 4: Tonsil using GART polyclonal antibody (Cat # PAB28573).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of human duodenum with GART polyclonal antibody (Cat # PAB28573) shows strong cytoplasmic positivity in glandular cells. Retrieval method: HIER pH6

- Immunofluorescence

Immunofluorescence of U-2 OS cell line with GART polyclonal antibody (Cat # PAB28573) shows positivity in cytoplasm and mitochondria. Fixation/Permeabilization: PFA/Triton X-103

Gene Info — GART

Entrez GeneID	2618
Protein Accession#	C9JB1
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

Publication Reference

- [Phosphorylation of seryl-tRNA synthetase by ATM/ATR is essential for hypoxia-induced angiogenesis.](#)

Yi Shi, Ze Liu, Qian Zhang, Ingrid Vallee, Zhongying Mo, Shuji Kishi, Xiang-Lei Yang.

PLoS Biology 2020 Dec; 18(12):e3000991.

Application: WB-Tr, Human, HEK 293 cells

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](#)