bsm-60639M **[Primary Antibody]**

GART Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1, Kappa
Clonality: Monoclonal
CloneNo.: 1D14
GeneID: 2618
SWISS: P22102
Target: GART
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: PBS, Glycerol, BSA.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

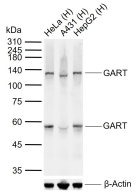
Applications: **WB** (1:500-1000)
ICC/IF (1:50)

Reactivity: Human (predicted: Rat)

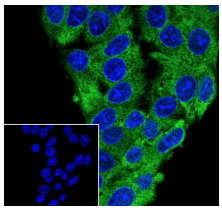
Predicted MW.: 107 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Human HeLa cell lysates Lane 2: Human A431 cell lysates Lane 3: Human HepG2 cell lysates Primary: Anti-GART (bsm-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



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