

For Research Use Only

FPGS Monoclonal antibody

Catalog Number: 60635-1-Ig



Basic Information

Catalog Number:

60635-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG36736

GenBank Accession Number:

BC064393

GeneID (NCBI):

2356

UNIPROT ID:

Q05932

Full Name:

folylpolyglutamate synthase

Calculated MW:

65 kDa

Observed MW:

60-65 kDa

Purification Method:

Protein G purification

CloneNo.:

2D10H11

Recommended Dilutions:

WB: 1:5000-1:50000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : BxPC-3 cells, HeLa cells

FC (Intra) : HeLa cells,

Background Information

FPGS is located in the cytosol and mitochondria of mammalian tissues, with current evidence supporting a single gene encoding for both the cytosolic and mitochondrial isoenzymes. FPGS catalyzes a rate-limiting polyglutamylation step in the folic acid metabolic pathway and increases the intracellular retention of folates (PMID: 8907263, PMID: 31611592). FPGS has 4 isoforms with the molecular mass of 59-65 kDa.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

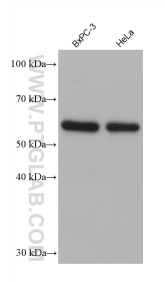
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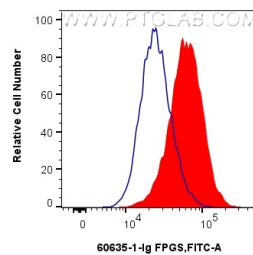
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60635-1-Ig (FPGS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g FPGS Monoclonal antibody (60635-1-Ig, Clone:2D10H11) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 μ g Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).