

For Research Use Only

# FPGS Polyclonal antibody, PBS Only

Catalog Number: 27616-1-PBS



## Basic Information

**Catalog Number:**

27616-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG24775

**GenBank Accession Number:**

BC064393

**GeneID (NCBI):**

2356

**UNIPROT ID:**

Q05932

**Full Name:**

folylpolyglutamate synthase

**Calculated MW:**

65 kDa

**Observed MW:**

65 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human, mouse

## 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 polyglutamylolation 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 -80°C.

**Storage Buffer:**

PBS only, pH7.3

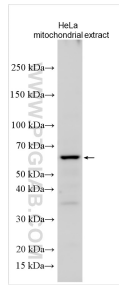
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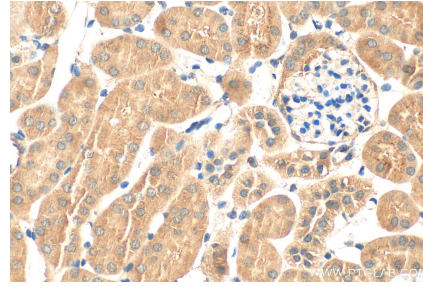
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## Selected Validation Data



HeLa mitochondrial extracts were subjected to SDS PAGE followed by western blot with 27616-1-AP (FPGS antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 27616-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 27616-1-AP (FPGS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 27616-1-PBS in a different storage buffer formulation.