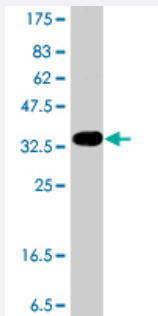


FPGS polyclonal antibody (A01)

Catalog # H00002356-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (36.89 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant FPGS.
Immunogen	FPGS (NP_004948, 135 a.a. ~ 232 a.a) partial recombinant protein with GST tag.
Sequence	QVRERIRINGQPISPELFTKYFWRLYHRLEETKDGSCVSMPPYFRFLTMAFHVFLQEKVDLAVVE VGIGGAYDCTNIIRKPVVCGVSSLGIDHTSLL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.89 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — FPGS

Entrez GeneID [2356](#)

GeneBank Accession# [NM_004957](#)

Protein Accession# [NP_004948](#)

Gene Name FPGS

Gene Alias -

Gene Description folypolyglutamate synthase

Omim ID [136510](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes the folypolyglutamate synthetase enzyme. This enzyme has a central role in establishing and maintaining both cytosolic and mitochondrial folypolyglutamate concentrations and, therefore, is essential for folate homeostasis and the survival of proliferating cells. This enzyme catalyzes the ATP-dependent addition of glutamate moieties to folate and folate derivatives. While several transcript variants may exist for this gene, the full-length nature of only two have been biologically validated to date. These two variants encode distinct isoforms. [provided by RefSeq]

Other Designations OTTHUMP00000022201|OTTHUMP00000022202|folypoly-gamma-glutamate synthetase|folypolyglutamate synthetase|tetrahydrofolypolyglutamate synthase

Publication Reference

- [Folypoly-γ-glutamate synthetase association to the cytoskeleton: Implications to folate metabolon compartmentalization.](#)

Michal Stark, Shachar Raz, Yehuda G Assaraf.

Journal of Proteomics 2021 Mar; 329:104169.

Application: WB-Ce, WB-Tr, Human, CCRF-CEM, HEK 293, HeLa cells

Pathway

- [Biosynthesis of phenylpropanoids](#)
- [Folate biosynthesis](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Arthritis](#)
- [Carcinoma](#)
- [Chromosome Aberrations](#)
- [Colorectal Neoplasms](#)
- [DNA Damage](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Liver Diseases](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Psoriasis](#)
- [Spinal Dysraphism](#)
- [Werner syndrome](#)