



Rabbit Anti-FPGS antibody

SL13196R

Product Name:	FPGS
Chinese Name:	叶酸盐多谷氨酸合成酶抗体
Alias:	EC 6.3.2.17; FOLC; FOLC_HUMAN; Folylpoly gamma glutamate synthetase; Folylpoly-gamma-glutamate synthetase; Folylpolyglutamate synthase; Folylpolyglutamate synthase mitochondrial; FPGS; mitochondrial; OTTHUMP00000022201; OTTHUMP00000022202; Tetrahydrofolate synthase; Tetrahydrofolylpolyglutamate synthase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	60kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FPGS/Folylpolyglutamate synthase:51-150/587
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes the folylpolyglutamate synthetase enzyme. This enzyme has a central role in establishing and maintaining both cytosolic and mitochondrial

folylpolyglutamate 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, Jul 2008].

Function:

Conversion of folates to polyglutamate derivatives. This allows tissues to concentrate folate at higher levels than in plasma.

Subunit:

Monomer.

Subcellular Location:

Mitochondrion. Cytoplasm.

Similarity:

Belongs to the folylpolyglutamate synthase family.

SWISS:

Q05932

Gene ID:

2356

Database links:

[Entrez Gene: 2356](#)Human

[Omim: 136510](#)Human

[SwissProt: Q05932](#)Human

[Unigene: 335084](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.