

Rabbit anti-Human FPGS Polyclonal Antibody | anti-FPGS antibody

FPGS Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290154	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

FPGS; Polyclonal Antibody; FPGS Antibody (Center); Folylpolyglutamate synthase; mitochondrial; Folylpoly-gamma-glutamate synthetase; Tetrahydrofolylpolyglutamate synthase; Tetrahydrofolate synthase; anti-FPGS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This FPGS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 304-330 amino acids from the Central region of human FPGS.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.33 (varies by lot)
Sequence Positions	304-330
Sequence Length	561
Applicable Applications for anti-FPGS antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of K562 cells using FPGS Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human lung carcinoma with FPGS Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of FPGS Antibody (Center) in K562, A2058 cell line lysates (35ug/lane).
FPGS (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-FPGS antibody	FPGS is 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.
Product Categories/Family for anti-FPGS antibody	Metabolism ; Signal Transduction
References	Sharma,S., et.al., Pharmacogenet. Genomics 18 (12), 1041-1049 (2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	66932990
NCBI GeneID	2356
NCBI Accession #	NP_001018088.1 ; NP_004948.4
NCBI GenBank Nucleotide #	NM_001018078.2
UniProt Accession #	Q05932 ; Q5JU19 ; Q5JU22 ; Q6P2P6 ; B3KPW4 ; B7Z2Z3 ; F5H0K6
Molecular Weight	64609
NCBI Official Full Name	folypolyglutamate synthase, mitochondrial isoform b
NCBI Official Synonym Full Names	folypolyglutamate synthase
NCBI Official Symbol	FPGS
NCBI Protein Information	folypolyglutamate synthase, mitochondrial
UniProt Protein Name	Folypolyglutamate synthase, mitochondrial
UniProt Gene Name	FPGS
UniProt Synonym Gene Names	FPGS; Tetrahydrofolate synthase
UniProt Entry Name	FOLC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/fpgs-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/290154>