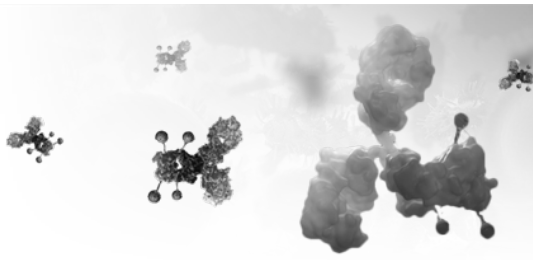

Mouse anti-Human FPGS polyclonal antibody (DPAB-DC1119)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. Alternative splicing results in transcript variants encoding different isoforms.
Immunogen	FPGS (NP_004948, 135 a.a. ~ 232 a.a) partial recombinant protein with GST tag. The sequence is QVRERIRINGQPISPELFTKYFWRLYHRLEETKDGSCVSMPPYFRFLTLMAFHVFLQEKV DLAVVEVGIGGAYDCTNIIRKPVVCGVSSLGIDHTSLL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

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Gene Name	FPGS folylpolyglutamate synthase [Homo sapiens (human)]
Official Symbol	FPGS
Synonyms	FPGS; folylpolyglutamate synthase; folylpolyglutamate synthase, mitochondrial; tetrahydrofolate synthase; folylpoly-gamma-glutamate synthetase; tetrahydrofolylpolyglutamate synthase;
Entrez Gene ID	2356
Protein Refseq	NP_001018088
UniProt ID	Q05932
Chromosome Location	9q34.1
Pathway	Defective AMN causes hereditary megaloblastic anemia 1; Defective CD320 causes methylmalonic aciduria; Defective GIF causes intrinsic factor deficiency; Defective LMBRD1 causes methylmalonic aciduria and homocystinuria type cblF
Function	ATP binding; tetrahydrofolylpolyglutamate synthase activity;

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