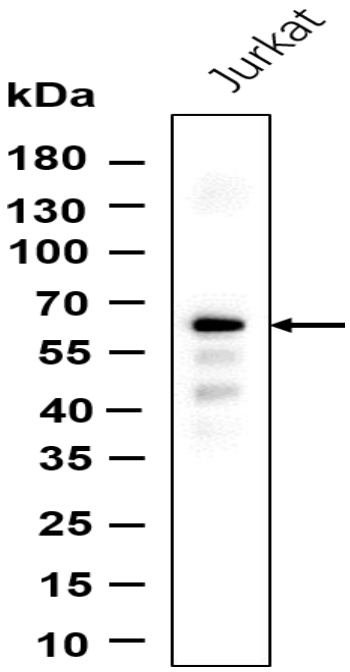
FPGS Rabbit Monoclonal Antibody

OPM17455YP

Reactivity	H,M,R,	**Storage**	-15°C to -25°C/1 year (Do not lower than -25°C)
Host	Rabbit	**Applications**	WB;FC
Isotype	IgG	**Concentration**	0.5mg/mL

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Western blot analysis of lysates from Jurkat cell, Primary Antibody was diluted at 1:1000, 4°C overnight, Dylight 800 Secondary Antibody was diluted at 1:10000, 37°C 1 hour.

Product Information

Observed MW	65kD
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA
Dilution	WB :- 1:1000-1:5000; FC:- 1:100-1:500

Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Function

Catalyzes conversion of folates to polyglutamate derivatives allowing concentration of folate compounds in the cell and the intracellular retention of these cofactors, which are important substrates for most of the folate-dependent enzymes that are involved in one-carbon transfer reactions involved in purine, pyrimidine and amino acid synthesis. Unsubstituted reduced folates are the preferred substrates. Metabolizes methotrexate (MTX) to polyglutamates. {ECO:0000269|PubMed:8408018, ECO:0000269|PubMed:8408019, ECO:0000269|PubMed:8408021, ECO:0000269|PubMed:8662720}.

Background

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.

Research Use

For research use only, not for use in diagnostic procedure

Legend

Applications: WB-Western Blot; IHC-Immunohistochemistry; IF-Immunofluorescence; IP-Immunoprecipitation; FC-Flow cytometry; ChIP-Chromatin Immunoprecipitation
Reactivity: H-Human; R-Rat; M-Mouse; Mk-Monkey; Dg-Dog; Ch-Chicken; Hm-Hamster; Rb-Rabbit; Sh- Sheep; Pg-Pig; Z-Zebrafish; X-Xenopus; C-Cow.