

Anti-FPGS Antibody (7Z220)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7Z220
Purification:	Affinity-chromatography

Applications

Verified Activity:	Overlay Peak curve showing HepG2 cells stained with TMAH-00457 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10 ⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1µg/1*10 ⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.
Application:	ELISA,FCM
Recommended	FCM:1:50-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human FPGS
Antigen Species:	Human
Gene ID:	2356
Uniprot ID:	Q05932
Synonyms:	mitochondrial;Tetrahydrofolate synthase;Tetrahydrofolylpolyglutamate synthase;EC 6.3.2.17; Folylpoly-gamma-glutamate synthetase;Folylpolyglutamate synthase
Biology Area:	Metabolism, Signal transduction

Research Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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