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**Product Name: FPGS Rabbit Monoclonal Antibody****Catalog #: AMRe85580**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in TBS with 0.05% sodium azide,0.05%protective protein and 50% glycerol.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000
<b>Molecular Weight</b>	Calculated MW: 65 kDa; Observed MW: 65 kDa

**Antigen Information**

<b>Gene Name</b>	FPGS
<b>Alternative Names</b>	FPGS; Tetrahydrofolate synthase
<b>Gene ID</b>	2356.0
<b>SwissProt ID</b>	Q05932
<b>Immunogen</b>	A synthetic peptide of human FPGS

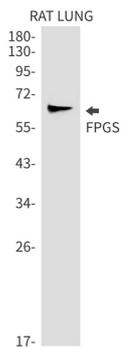
**Background**

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

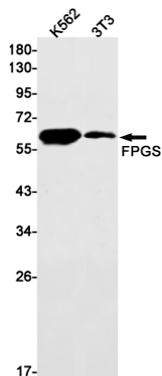
folates are the preferred substrates. Metabolizes methotrexate (MTX) to polyglutamates.

## Research Area

## Image Data



Western blot analysis of FPGS in rat lung lysates using FPGS antibody.



Western blot analysis of FPGS in K562, 3T3 lysates using FPGS antibody.