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Datasheet for ABIN2789500  
**anti-FPGS antibody (Middle Region)**

2 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	FPGS
Binding Specificity:	Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FPGS antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Sequence:	CWLQRQDRHG AGEPKASRPG LLWQLPLAPV FQPTSHMRLG LRNTEWPGRT
Predicted Reactivity:	Human: 100%
Characteristics:	This is a rabbit polyclonal antibody against FPGS. It was validated on Western Blot.
Purification:	Affinity Purified

### Target Details

Target:	FPGS
Alternative Name:	FPGS ( <a href="#">FPGS Products</a> )
Background:	This gene encodes the folylpolyglutamate synthetase enzyme. This enzyme has a central role in establishing and maintaining both cytosolic and mitochondrial folylpolyglutamate

## Target Details

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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. While several transcript variants may exist for this gene, the full-length nature of only two have been biologically validated to date. These two variants encode distinct isoforms.

Alias Symbols: -

Protein Interaction Partner: UBC,

Protein Size: 537

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Molecular Weight: 59 kDa

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Gene ID: 2356

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NCBI Accession: [NM\\_001018078](#), [NP\\_001018088](#)

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UniProt: [Q5JU19](#)

## Application Details

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Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

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Comment: Antigen size: 537 AA

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: Lot specific

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Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -20 °C

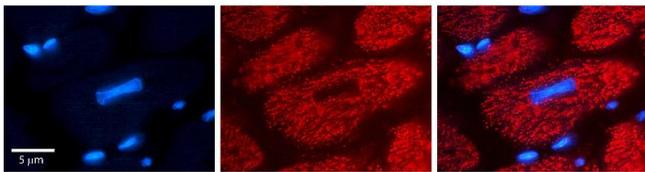
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Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

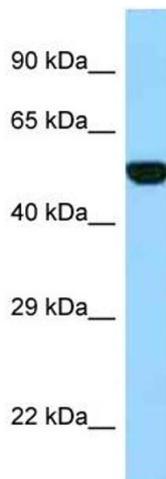
Product cited in: Fukuda, Oguri, Kunii, Sone, Uemura, Takakuwa, Maeno, Kanemitsu, Ohkubo, Takemura, Ito, Niimi: "A foylpolypoly- $\gamma$ -glutamate synthase single nucleotide polymorphism associated with response to pemetrexed treatment combined with platinum for non-small cell lung cancer." in: **Lung cancer (Amsterdam, Netherlands)**, Vol. 102, pp. 15-20, (2016) ([PubMed](#)).

## Images



### Immunohistochemistry

**Image 1.** Rabbit Anti-FPGS Antibody Catalog Number: ARP63438\_P050 Formalin Fixed Paraffin Embedded Tissue: Human heart Tissue Observed Staining: Cytoplasmic in mitochondria Primary Antibody Concentration: N/A Other Working Concentrations: 1:600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec



### Western Blotting

**Image 2.** WB Suggested Anti-FPGS Antibody Titration: 1.0 ug/ml Positive Control: Fetal Heart