

**GMPS Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8613C****Specification**

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**GMPS Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P49915</a>
Other Accession	<a href="#">Q4V7C6</a> , <a href="#">Q3THK7</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	76715
Antigen Region	296-325

**GMPS Antibody (Center) - Additional Information****Gene ID** 8833**Other Names**

GMP synthase [glutamine-hydrolyzing], GMP synthetase, Glutamine amidotransferase, GMPS

**Target/Specificity**

This GMPS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-325 amino acids from the Central region of human GMPS.

**Dilution**WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GMPS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**GMPS Antibody (Center) - Protein Information****Name** GMPS

**Function** Catalyzes the conversion of xanthine monophosphate (XMP) to GMP in the presence of glutamine and ATP through an adenylyl-XMP intermediate.

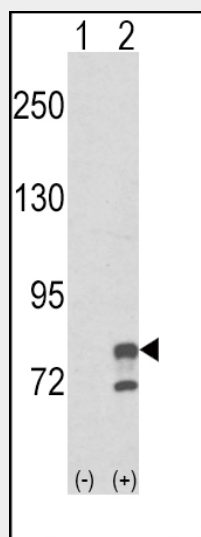
**Cellular Location**  
Cytoplasm, cytosol.

### GMPS Antibody (Center) - Protocols

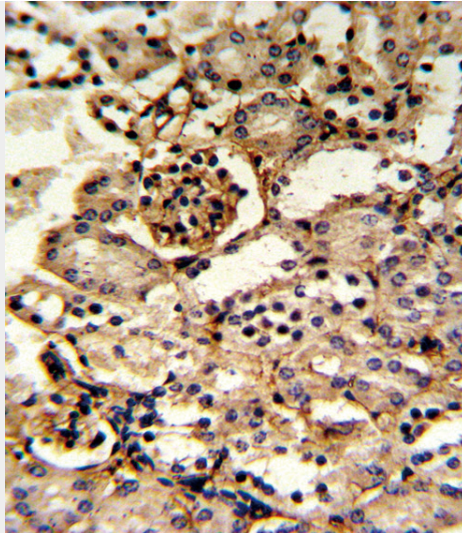
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

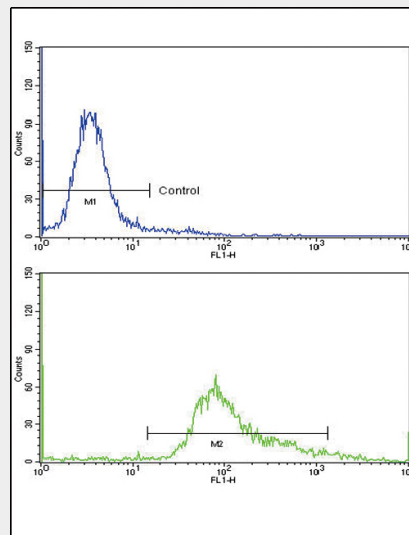
### GMPS Antibody (Center) - Images



Western blot analysis of GMPS (arrow) using rabbit polyclonal GMPS Antibody (Center) (Cat. #AP8613c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the GMPS gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded kidney tissue reacted with GMPS Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using GMPS Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **GMPS Antibody (Center) - Background**

GMPS is involved in the de novo synthesis of guanine nucleotides which are not only essential for DNA and RNA synthesis, but also provide GTP, which is involved in a number of cellular processes important for cell division.

### **GMPS Antibody (Center) - References**

- Nakamura,J., et.al., J. Biol. Chem. 270 (40), 23450-23455 (1995)
- Nakamura,J. et.al., J. Biol. Chem. 270 (13), 7347-7353 (1995)