

GMPS Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant GMPS.****Catalog # AT2223a****Specification**

GMPS Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	P49915
Other Accession	NM_003875
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	76715

GMPS Antibody (monoclonal) (M01) - Additional Information**Gene ID** 8833**Other Names**

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

Target/Specificity

GMPS (NP_003866, 108 a.a. ~ 215 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

GMPS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

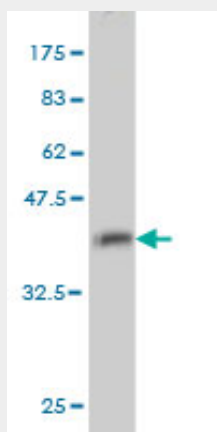
GMPS Antibody (monoclonal) (M01) - Protocols

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

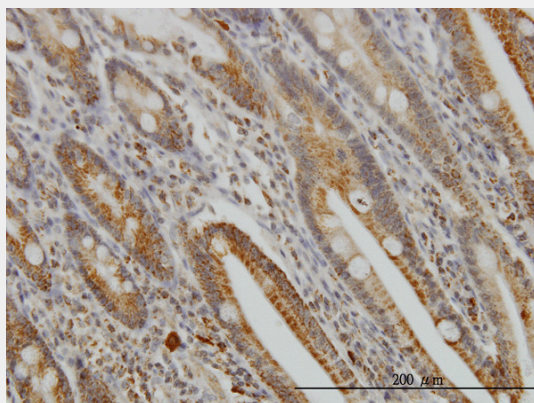
- [Western Blot](#)
- [Blocking Peptides](#)

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

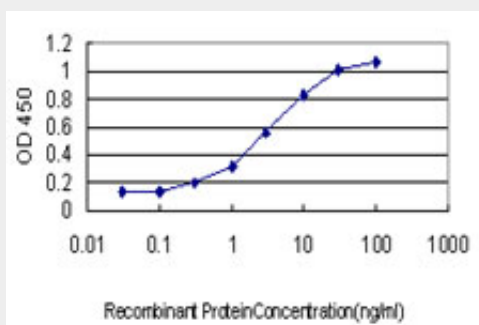
GMPS Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .



Immunoperoxidase of monoclonal antibody to GMPS on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1.5 ug/ml]



Detection limit for recombinant GST tagged GMPS is approximately 0.1ng/ml as a capture antibody.

GMPS Antibody (monoclonal) (M01) - Background

In the de novo synthesis of purine nucleotides, IMP is the branch point metabolite at which point the pathway diverges to the synthesis of either guanine or adenine nucleotides. In the guanine nucleotide pathway, there are 2 enzymes involved in converting IMP to GMP, namely IMP dehydrogenase (IMPD1), which catalyzes the oxidation of IMP to XMP, and GMP synthetase, which catalyzes the amination of XMP to GMP.

GMPS Antibody (monoclonal) (M01) - References

1. Proteomic analysis of the effects of the immunomodulatory mycotoxin deoxynivalenol. da Costa AN, Mijal RS, Keen JN, Findlay JB, Wild CP. *Proteomics*. 2011 Mar 9. doi: 10.1002/pmic.201000580. [Epub ahead of print]