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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

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.

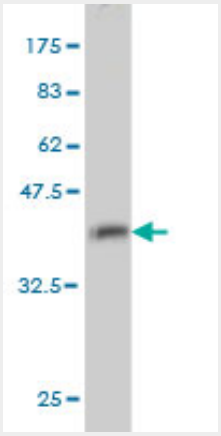
GMPS Antibody (monoclonal) (M01) - Protocols

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

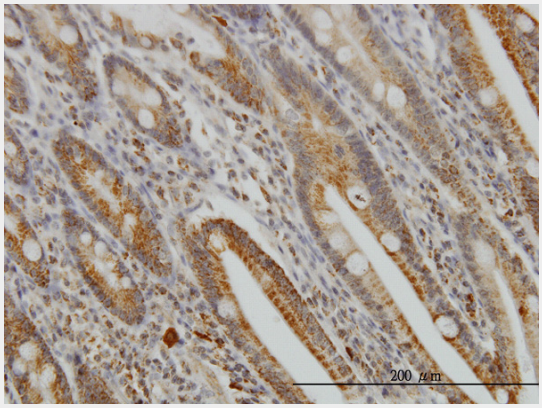
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

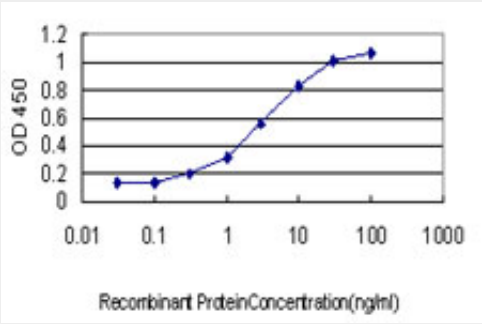
GMPS Antibody (monoclonal) (M01) - Images



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]