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GMPS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GMPS.
Catalog # AT2223a

Product Information

Application	WB, IHC, E
Primary Accession	P49915
Other Accession	NM_003875
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1D10
Calculated MW	76715

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.

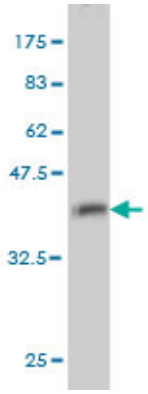
Background

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.

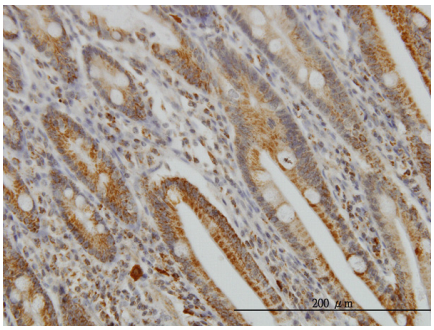
References

1.Proteomic analysis of the effects of the immunomodulatory mycotoxin deoxynivalenol.da Costa AN, Mijal

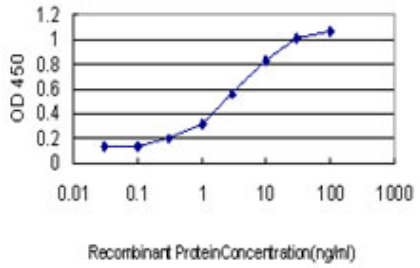
Images



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.