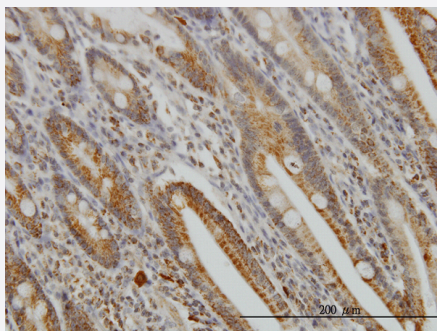


GMPS monoclonal antibody (M01), clone 1D10

Catalog # H00008833-M01

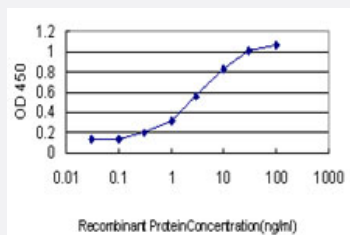
Size 100 ug

Applications



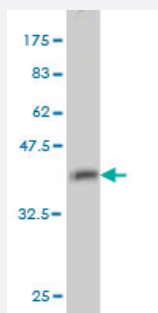
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (37.62 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant GMPS.

Immunogen	GMPS (NP_003866, 108 a.a. ~ 215 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	QMMNKVFGGTVHKKSVDREDGVFNISVDNTCSLFRGLQKEEVVLLTHGDSVDKQVADGFKVVARSGNIVAGIANESKKLYGAQFHPEVGLTENGKVLKNFLYDIAGCSG
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97); Rat (97)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.62 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — GMPS

Entrez GeneID

[8833](#)

GeneBank Accession#	NM_003875
Protein Accession#	NP_003866
Gene Name	GMPS
Gene Alias	-
Gene Description	guanine monphosphate synthetase
Omim ID	600358 601626
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	GMP synthase GMP synthetase MLL/GMPS fusion protein glutamine amidotransferase guanine monophosphate synthetase guanosine 5'-monophosphate synthase

Publication Reference

- [Proteomic analysis of the effects of the immunomodulatory mycotoxin deoxynivalenol.](#)

da Costa AN, Mijal RS, Keen JN, Findlay JB, Wild CP.

Proteomics 2011 May; 11(10):1903.

Application: Flow Cyt, Human, RPMI 1788, Jurkat E6.1 cells

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Genetic Predisposition to Disease](#)

- [Inflammatory Bowel Diseases](#)
- [Schizophrenia](#)