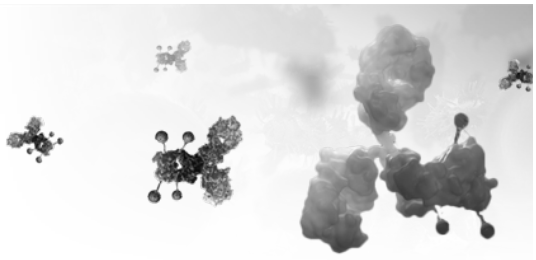

Mouse anti-Human GMPS monoclonal antibody, clone 2E20 (CABT-B10343)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	2E20
Conjugate	Unconjugated
Applications	WB, IHC, sELISA, ELISA
Sequence Similarities	QMMNKVFGGTVHKKSVREDGVFNISVDNTCSLFRGLQKEEVVLLTHGDSVDKVADGFKVV ARSGNIVAGIANESKKLYGAQFHPEVGLTENGKVILKNFLYDIAGCSG
Format	Liquid
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	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, Jul 2008]
Keywords	GMPS; guanine monphosphate synthase; GMP synthase [glutamine-hydrolyzing]; GMP synthase; GMP synthetase; MLL/GMPS fusion protein; glutamine amidotransferase; guanine monphosphate synthetase; guanosine 5-monophosphate synthase;

GENE INFORMATION

Entrez Gene ID	8833
UniProt ID	P49915
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem;
Function	ATP binding; GMP synthase (glutamine-hydrolyzing) activity; GMP synthase activity; ligase activity; nucleotide binding;

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