HMBS Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HMBS, Monoclonal Antibody
Full Product Name	HMBS (hydroxymethylbilane Synthase, PBG-D, PBGD, UPS) (MaxLight 405)
Product Gene Name	anti-HMBS antibody
Product Synonym Names	hydroxymethylbilane Synthase; PBG-D; PBGD; UPS
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2B12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes HMBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	HMBS (AAH00520.1, 1aa-361aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight405
Product Categories/Family for anti-HMBS antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-HMBS antibody	FLISA
Application Notes for anti-HMBS antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HMBS antibody	This gene encodes a member of the hydroxymethylbilane synthase superfamily. The encoded protein is the third enzyme of the heme biosynthetic pathway and catalyzes the head to tail condensation of four porphobilinogen molecules into the linear hydroxymethylbilane. Mutations in this gene are associated with the autosomal dominant disease acute intermittent porphyria. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq]
Other Notes	Small volumes of anti-HMBS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HMBS purchase	MBS6195992 is an antibody targeting HMBS. Also known as HMBS (hydroxymethylbilane Synthase, PBG-D, PBGD, UPS) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMBS. It may not necessarily be applicable to this product.

NCBI GI #	12653497

NCBI GeneID	3145
NCBI Accession #	AAH00520.1
UniProt Related Accession #	P08397
NCBI Official Full Name	Hydroxymethylbilane synthase
NCBI Official Synonym Full Names	hydroxymethylbilane synthase
NCBI Official Symbol	HMBS
NCBI Official Synonym Symbols	UPS; PBGD; PORC; PBG-D
Protein Family	Porphobilinogen deaminase
NCBI Protein Information	porphobilinogen deaminase
Research Articles on HMBS	**1.** To investigate the dramatically different manifestations, knock-in mice with human homozygous dominant-Acute intermittent porphyria (HD-AIP) missense mutations c.500G>A (p.Arg167Glu) or c.518_519GC>AG (p.Arg173Glu), designated R167Q or R173Q mice, respectively, were generated and compared with the previously established T1/T2 mice with ~30% residual HMBS activity and the heterozygous AIP phenotype
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