

Anti-HMBS Rabbit Monoclonal Antibody

Catalog # ABO13412

Product Information

Application	WB
Primary Accession	P08397
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-HMBS Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	3145
Other Names	Porphobilinogen deaminase, PBG-D, 2.5.1.61, Hydroxymethylbilane synthase, HMBS, Pre-uroporphyrinogen synthase, HMBS, PBGD, UPS
Calculated MW	39330
Application Details	WB 1:500-1:2000
Subcellular Localization	Cytoplasm.
Tissue Specificity	Isoform 1 is ubiquitously expressed. Isoform 2 is found only in erythroid cells..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: FEG-8
Immunogen	A synthesized peptide derived from human HMBS
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	HMBS
-------------	------

Synonyms

PBGD, UPS

Function

As part of the heme biosynthetic pathway, catalyzes the sequential polymerization of four molecules of porphobilinogen to form hydroxymethylbilane, also known as preuroporphyrinogen (PubMed:[18004775](#), PubMed:[18936296](#), PubMed:[19138865](#), PubMed:[23815679](#)). Catalysis begins with the assembly of the dipyrromethane cofactor by the apoenzyme from two molecules of porphobilinogen or from preuroporphyrinogen. The covalently linked cofactor acts as a primer, around which the tetrapyrrole product is assembled (PubMed:[18936296](#)). In the last step of catalysis, the product, preuroporphyrinogen, is released, leaving the cofactor bound to the holodeaminase intact (PubMed:[18936296](#)).

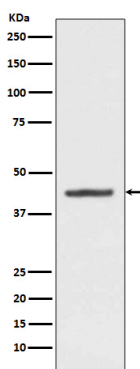
Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:P22907}

Tissue Location

[Isoform 1]: Is ubiquitously expressed.

Images



Western blot analysis of HMBS expression in HepG2 cell lysate.

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