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HMBS Antibody
Rabbit mAb
Catalog # AP90687

Specification

HMBS Antibody - Product Information

Application	**WB**
Primary Accession	P08397
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
UPS; PBGD; PORC; PBG-D; HMBS; Hydroxymethylbilane synthase;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**39330 Da**

HMBS Antibody - Additional Information

Dilution	**WB~~1:1000**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human HMBS**
Description	**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.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

HMBS Antibody - 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}

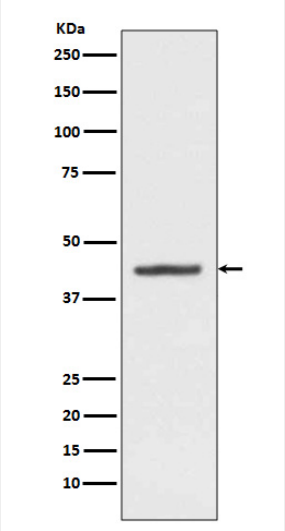
Tissue Location
[Isoform 1]: Is ubiquitously expressed.

HMBS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HMBS Antibody - Images



Western blot analysis of HMBS expression in HepG2 cell lysate.