10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HMBS Antibody

Rabbit mAb
Catalog # AP90687

Product Information

Application	WB
Primary Accession	P08397
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	UPS; PBGD; PORC; PBG-D; HMBS; Hydroxymethylbilane synthase;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	39330

Additional Information

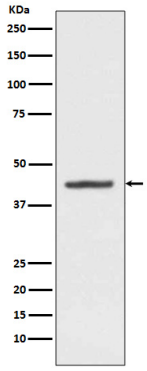
Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HMBS
Description	This gene encodes a member of the hydroxymethylbilane synthase superfamily. The encoded protein is the third enzyme of the heme biosynthetic pathway and catalyzes the head 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.

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.