

**HMBS Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12917c****Specification**

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**HMBS Antibody (Center) Blocking peptide - Product Information**Primary Accession [P08397](#)**HMBS Antibody (Center) Blocking peptide - Additional Information****Gene ID** 3145**Other Names**

Porphobilinogen deaminase, PBG-D, Hydroxymethylbilane synthase, HMBS, Pre-uroporphyrinogen synthase, HMBS, PBGD, UPS

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HMBS Antibody (Center) Blocking peptide - 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:<a href="http://www.uniprot.org/citations/18936296" target="\_blank">18936296</a>, PubMed:<a href="http://www.uniprot.org/citations/19138865" target="\_blank">19138865</a>, PubMed:<a href="http://www.uniprot.org/citations/23815679" target="\_blank">23815679</a>, PubMed:<a href="http://www.uniprot.org/citations/18004775" target="\_blank">18004775</a>). 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. In the last step of catalysis, the product, preuroporphyrinogen, is released, leaving the cofactor bound to the holodeaminase intact (PubMed:<a href="http://www.uniprot.org/citations/18936296" target="\_blank">18936296</a>).

**Cellular Location**

Cytoplasm.

**Tissue Location**

[Isoform 1]: Is ubiquitously expressed.

**HMBS Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**HMBS Antibody (Center) Blocking peptide - Images****HMBS Antibody (Center) Blocking peptide - Background**

This gene encodes a member of the hydroxymethylbilan 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.

**HMBS Antibody (Center) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Surin, V.L., et al. Genetika 46(4):540-552(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Gill, R., et al. Biochem. J. 420(1):17-25(2009) Ulbrichova, D., et al. FEBS J. 276(7):2106-2115(2009)