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

Specification

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:18936296, PubMed:19138865, PubMed:23815679, PubMed:18004775). 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:18936296).

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 hydroxymethylbilanesynthase superfamily. The encoded protein is the third enzyme ofthe heme biosynthetic pathway and catalyzes the head to tailcondensation of four porphobilinogen molecules into the linearhydroxymethylbilane. Mutations in this gene are associated with theautosomal dominant disease acute intermittent porphyria.Alternatively spliced transcript variants encoding differentisoforms 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)