

UROS Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9091a**Specification**

UROS Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P10746](#)**UROS Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 7390**Other Names**Uroporphyrinogen-III synthase, UROIII, UROS, Hydroxymethylbilane hydrolyase [cyclizing],
Uroporphyrinogen-III cosynthase, UROS**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9091a](/products/AP9091a) was selected from the N-term region of human UROS. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

UROS Antibody (N-term) Blocking Peptide - Protein Information**Name** Mgu**Synonyms** UROS**Function**

Catalyzes cyclization of the linear tetrapyrrole, hydroxymethylbilane, to the macrocyclic uroporphyrinogen III, the branch point for the various sub-pathways leading to the wide diversity of porphyrins (PubMed: [11689424](http://www.uniprot.org/citations/11689424), PubMed: [18004775](http://www.uniprot.org/citations/18004775)). Porphyrins act as cofactors for a multitude of enzymes that perform a variety of processes within the cell such as methionine synthesis (vitamin B12) or oxygen transport (heme) (PubMed: [11689424](http://www.uniprot.org/citations/11689424), PubMed: [18004775](http://www.uniprot.org/citations/18004775)).

Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:P51163}

Tissue Location

Ubiquitous..

UROS Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

UROS Antibody (N-term) Blocking Peptide - Images**UROS Antibody (N-term) Blocking Peptide - Background**

The protein encoded by this gene catalyzes the fourth step of porphyrin biosynthesis in the heme biosynthetic pathway. Defects in this gene cause congenital erythropoietic porphyria (Gunther's disease).

UROS Antibody (N-term) Blocking Peptide - References

Bishop,D.F., et.al., Blood 115 (5), 1062-1069 (2010)Fortian,A., et.al., Biochemistry 48 (2), 454-461 (2009)