

HARS Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7567a**Specification**

HARS Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P12081](#)**HARS Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 3035**Other Names**

Histidine--tRNA ligase, cytoplasmic, Histidyl-tRNA synthetase, HisRS, HARS, HRS

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7567a](/product/products/AP7567a) was selected from the N-term region of human HARS. 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.

HARS Antibody (N-term) Blocking Peptide - Protein Information**Name** HARS1 ([HGNC:4816](#))**Synonyms** HARS, HRS**Function**

Catalyzes the ATP-dependent ligation of histidine to the 3'- end of its cognate tRNA, via the formation of an aminoacyl-adenylate intermediate (His-AMP) (PubMed: [29235198](http://www.uniprot.org/citations/29235198)). Plays a role in axon guidance (PubMed: [26072516](http://www.uniprot.org/citations/26072516)).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:F1Q5D5}.

Tissue Location

Brain, heart, liver and kidney.

HARS Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HARS Antibody (N-term) Blocking Peptide - Images

HARS Antibody (N-term) Blocking Peptide - Background

Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. HARS is a cytoplasmic enzyme which belongs to the class II family of aminoacyl-tRNA synthetases. This enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. The protein is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.

HARS Antibody (N-term) Blocking Peptide - References

Levine, S.M., Arthritis Rheum. 56 (8), 2729-2739 (2007) Lu, Q., Proc. Natl. Acad. Sci. U.S.A. 100 (13), 7626-7631 (2003)