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HARS Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7567a

Specification

HARS Antibody (N-term) Blocking Peptide - Product Information

Primary 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 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). Plays a role in axon guidance (PubMed: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)