

HARS Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11205c**Specification**

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

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

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 (Center) 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 (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

HARS Antibody (Center) Blocking peptide - Images

HARS Antibody (Center) Blocking peptide - Background

Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene is a cytoplasmic enzyme which belongs to the class II family of aminoacyl-tRNA synthetases. The enzyme is responsible for the synthesis of histidyl-transfer RNA, which is essential for the incorporation of histidine into proteins. The gene is located in ahead-to-head orientation with HARSL on chromosome five, where the homologous genes share a bidirectional promoter. The gene product is a frequent target of autoantibodies in the human autoimmune disease polymyositis/dermatomyositis.

HARS Antibody (Center) Blocking peptide - References

Gomard-Mennesson, E., et al. Ann. N. Y. Acad. Sci. 1109, 414-420 (2007) :Levine, S.M., et al. Arthritis Rheum. 56(8):2729-2739(2007) Lu, Q., et al. Proc. Natl. Acad. Sci. U.S.A. 100(13):7626-7631(2003) Ascherman, D.P., et al. J. Immunol. 169(12):7127-7134(2002) O'Hanlon, T.P., et al. Biochem. Biophys. Res. Commun. 294(3):609-614(2002)