

HARS Antibody (Center) Blocking peptide Synthetic peptide

Catalog # BP11205c

Specification

HARS Antibody (Center) Blocking peptide - Product Information

Primary Accession

<u>P12081</u>

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" target="_blank">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.

<u>Blocking Peptides</u>

HARS Antibody (Center) Blocking peptide - Images

HARS Antibody (Center) Blocking peptide - Background

Aminoacyl-tRNA synthetases are a class of enzymes thatcharge tRNAs with their cognate amino acids. The protein encoded bythis gene is a cytoplasmic enzyme which belongs to the class IIfamily of aminoacyl-tRNA synthetases. The enzyme is responsible forthe synthesis of histidyl-transfer RNA, which is essential for theincorporation of histidine into proteins. The gene is located in ahead-to-head orientation with HARSL on chromosome five, where thehomologous genes share a bidirectional promoter. The gene productis a frequent target of autoantibodies in the human autoimmunedisease 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)