10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SEPSECS Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18403b

Specification

SEPSECS Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9HD40

SEPSECS Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 51091

Other Names
O-phosphoseryl-tRNA(Sec) selenium transferase, Liver-pancreas antigen, LP, SLA-p35, SLA/LP autoantigen, Selenocysteine synthase, Sec synthase, Selenocysteinyl-tRNA(Sec) synthase, Sep-tRNA:Sec-tRNA synthase, SepSecS, Soluble liver antigen, SLA, UGA suppressor tRNA-associated protein, tRNA(Ser/Sec)-associated antigenic protein, SEPSECS, TRNP48

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.

SEPSECS Antibody (C-term) Blocking Peptide - Protein Information

Name SEPSECS

Synonyms TRNP48

Function
Converts O-phosphoseryl-tRNA(Sec) to selenocysteinyl- tRNA(Sec) required for selenoprotein biosynthesis.

Cellular Location
Cytoplasm.

Tissue Location
Primarily expressed in liver, pancreas, kidney and lung. Overexpressed in PHA-stimulated T-cells

SEPSECS Antibody (C-term) Blocking Peptide - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

- Blocking Peptides

SEPSECS Antibody (C-term) Blocking Peptide - Images

SEPSECS Antibody (C-term) Blocking Peptide - Background

The 21st amino acid, selenocysteine (sec), is distinctfrom other amino acids because it lacks its own tRNA synthetase andis the only amino acid synthesized on its cognate tRNA. Synthesisof sec begins with acylation of tRNA(sec) (TRSP; MIM 165060) byseryl-tRNA synthetase (SARS; MIM 607529) to give ser-tRNA(sec),which is subsequently phosphorylated by O-phosphoseryl-tRNA kinase(PSTK; MIM 611310) to give O-phosphoseryl-tRNA(sec). SEPSECScatalyzes the final step of sec synthesis by convertingO-phosphoseryl-tRNA(sec) to selenocysteinyl-tRNA(sec) usingselenophosphate as the selenium donor (Palioura et al., 2009[PubMed 19608919]).

SEPSECS Antibody (C-term) Blocking Peptide - References

Agamy, O., et al. Am. J. Hum. Genet. 87(4):538-544(2010)Hart, K., et al. Lung Cancer (2010) In press :Volkmann, M., et al. J. Autoimmun. 34(1):59-65(2010)Palioura, S., et al. Science 325(5938):321-325(2009)Xu, X.M., et al. PLoS Biol. 5 (1), E4 (2007) :