

SEPSECS Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18403b**Specification**

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

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 distinct from other amino acids because it lacks its own tRNA synthetase and is the only amino acid synthesized on its cognate tRNA. Synthesis of sec begins with acylation of tRNA(sec) (TRSP; MIM 165060) by seryl-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 converting O-phosphoseryl-tRNA(sec) to selenocysteinyl-tRNA(sec) using selenophosphate 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) :