

## PISD Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP8829c

## **Specification**

## PISD Antibody (Center) Blocking Peptide - Product Information

Primary Accession O9UG56
Other Accession NP 055153

# PISD Antibody (Center) Blocking Peptide - Additional Information

#### **Gene ID 23761**

### **Other Names**

Phosphatidylserine decarboxylase proenzyme, Phosphatidylserine decarboxylase alpha chain, Phosphatidylserine decarboxylase beta chain, PISD

### **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/products/AP8829c>AP8829c</a> was selected from the Center region of human PISD. 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.

# PISD Antibody (Center) Blocking Peptide - Protein Information

Name PISD {ECO:0000255|HAMAP-Rule:MF 03208}

#### **Function**

Catalyzes the formation of phosphatidylethanolamine (PtdEtn) from phosphatidylserine (PtdSer) (PubMed:<a href="http://www.uniprot.org/citations/30488656" target="\_blank">30488656</a>, PubMed:<a href="http://www.uniprot.org/citations/30858161" target="\_blank">30858161</a>). Plays a central role in phospholipid metabolism and in the interorganelle trafficking of phosphatidylserine. May be involved in lipid droplet biogenesis at the endoplasmic reticulum membrane (By similarity).

## **Cellular Location**

[Phosphatidylserine decarboxylase beta chain]: Mitochondrion inner membrane {ECO:0000255|HAMAP-Rule:MF\_03208, ECO:0000305|PubMed:30858161,



ECO:0000305|PubMed:33718843}; Single-pass membrane protein {ECO:0000255|HAMAP-Rule:MF 03208}; Intermembrane side

{ECO:0000255|HAMAP-Rule:MF 03208} [Isoform 1]: Mitochondrion inner membrane

## PISD Antibody (Center) Blocking Peptide - Protocols

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

## • Blocking Peptides

**PISD Antibody (Center) Blocking Peptide - Images** 

# PISD Antibody (Center) Blocking Peptide - Background

Phosphatidylserine decarboxylases catalyze the formation of phosphatidylethanolamine (PE) by decarboxylation of phosphatidylserine (PS). Type I PSDs, such as PISD, are targeted to the inner mitochondrial membrane by an N-terminal targeting sequence. PISD also contains a conserved LGST motif that functions as an autocatalytic cleavage site where the proenzyme is split into mature alpha and beta subunits

## PISD Antibody (Center) Blocking Peptide - References

Simpson, J.C., et.al., EMBO Rep. 1 (3), 287-292 (2000)