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PISD Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8829c

Specification

PISD Antibody (Center) Blocking Peptide - Product Information

Primary Accession	Q9UG56
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 AP8829c 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:30488656, PubMed:30858161). 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)