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

PISD Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8829c

Specification

PISD Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q9UG56
Other Accession	NP_055153
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**46672**
Antigen Region	**223-250**

PISD Antibody (Center) - Additional Information

Gene ID 23761

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

Target/Specificity
This PISD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 223-250 amino acids from the Central region of human PISD.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PISD Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PISD Antibody (Center) - 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).

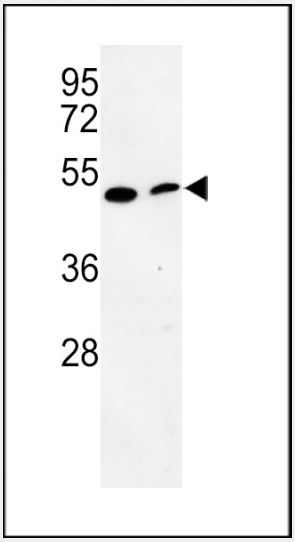
Cellular Location
[Phosphatidylserine decarboxylase beta chain]: Mitochondrion inner membrane {ECO:0000255|HAMAP-Rule:MF_03208, ECO:0000305|PubMed:30858161, ECO:0000305|PubMed:33718843}; Single-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_03208}; Intermembrane side {ECO:0000255|HAMAP-Rule:MF_03208} [Isoform 1]: Mitochondrion inner membrane

PISD Antibody (Center) - Protocols

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

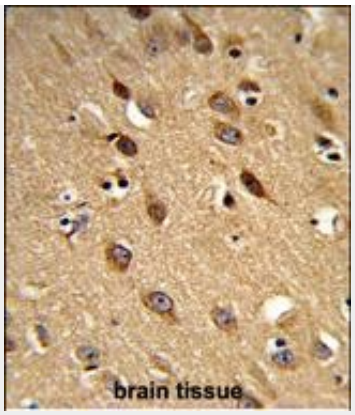
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PISD Antibody (Center) - Images

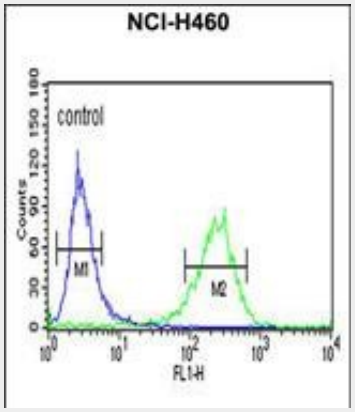


Western blot analysis of PISD Antibody (Center) (Cat. #AP8829c) in mouse cerebellum tissue and mouse NIH-3T3 cell line lysates (35ug/lane). PISD (arrow) was detected using the purified Pab.

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



Formalin-fixed and paraffin-embedded human brain reacted with PISD Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PISD Antibody (Center) (Cat. #AP8829c) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PISD Antibody (Center) - 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) - References

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