

## **PISD Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59091

## **Specification**

## **PISD Polyclonal Antibody - Product Information**

Application
Primary Accession

Reactivity Host Clonality Calculated MW Physical State

Immunogen

Epitope Specificity

Isotype **Purity** 

affinity purified by Protein A

47 KDa Liquid

KLH conjugated synthetic peptide derived from human PISD

151-250/409

Rat, Pig, Dog

IgG

09UG56

Rabbit

**Polyclonal** 

Buffer

SUBCELLULAR LOCATION

**SIMILARITY** 

**SUBUNIT** 

Important Note

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

WB, IHC-P, IHC-F, IF, ICC, E

Mitochondrion.

Belongs to the phosphatidylserine

decarboxylase family.

Heterodimer

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

### **Background Descriptions**

Enzymes known as phosphatidylserine decarboxylases (PSDs) catalyze the formation of phosphatidylethanolamine from phosphatidylserine via phosphatidylserine decarboxylation. Type I PSDs contain LGST motifs and are found in bacteria and eukaryotic mitochondria, whereas type II PSDs contain GGST motifs and are found in eukaryotic endomembrane systems. PISD (phosphatidylserine decarboxylase), also known as phosphatidylserine decarboxylase proenzyme, PSDC, PSD, PSSC, DJ858B16, dJ858B16.2 or DKFZp566G2246, is a 408 amino acid a type I phosphatidylserine decarboxylase that localizes to the inner mitochondrial membrane. PISD contains a conserved LGST motif which is cleaved to produce two isoforms known as PISD  $\alpha$  and PISD  $\beta$ . PISD is capable of forming a heterodimer and is highly expressed in liver and testis. The gene encoding PISD maps to human chromosome 22q12.2.

# **PISD Polyclonal Antibody - Additional Information**

# **Gene ID 23761**

### **Other Names**

Phosphatidylserine decarboxylase proenzyme, mitochondrial {ECO:0000255|HAMAP-Rule:MF\_03208}, 4.1.1.65 {ECO:0000255|HAMAP-Rule:MF\_03208}, Phosphatidylserine decarboxylase beta chain {ECO:0000255|HAMAP-Rule:MF\_03208},



Phosphatidylserine decarboxylase alpha chain {ECO:0000255|HAMAP-Rule:MF\_03208}, PISD {ECO:0000255|HAMAP-Rule:MF\_03208}

### **Dilution**

```
<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_E">E~~N/A</span>
```

#### **Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

### Storage

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## **PISD Polyclonal Antibody - 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

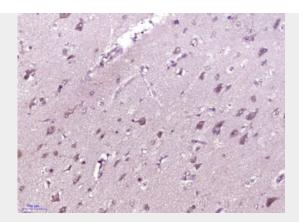
# **PISD Polyclonal Antibody - Protocols**

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

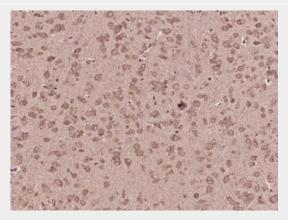
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## **PISD Polyclonal Antibody - Images**





Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PISD) Polyclonal Antibody, Unconjugated (bs-8866R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PISD) Polyclonal Antibody, Unconjugated (bs-8866R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.