

# PISD Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59091

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9UG56</a>
<b>Reactivity</b>	Rat, Pig, Dog
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	46672
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human PISD
<b>Epitope Specificity</b>	151-250/409
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Mitochondrion.
<b>SIMILARITY</b>	Belongs to the phosphatidylserine decarboxylase family.
<b>SUBUNIT</b>	Heterodimer
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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.

## Additional Information

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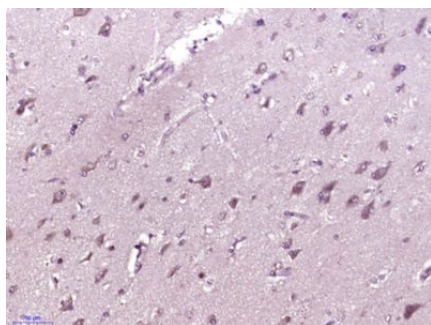
<b>Gene ID</b>	23761
<b>Other Names</b>	Phosphatidylserine decarboxylase proenzyme, mitochondrial {ECO:0000255 HAMAP-Rule:MF_03208}, 4.1.1.65 {ECO:0000255 HAMAP-Rule:MF_03208}, Phosphatidylserine decarboxylase beta chain {ECO:0000255 HAMAP-Rule:MF_03208}, Phosphatidylserine decarboxylase alpha chain {ECO:0000255 HAMAP-Rule:MF_03208}, PISD {ECO:0000255 HAMAP-Rule:MF_03208}

<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °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 °C.

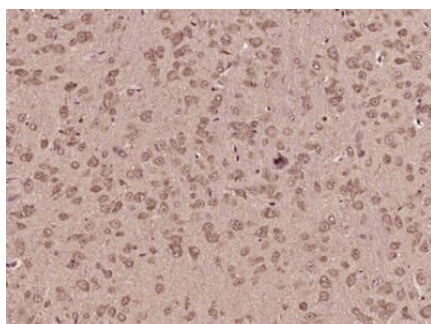
## Protein Information

<b>Name</b>	PISD {ECO:0000255   HAMAP-Rule:MF_03208}
<b>Function</b>	Catalyzes the formation of phosphatidylethanolamine (PtdEtn) from phosphatidylserine (PtdSer) (PubMed: <a href="#">30488656</a> , PubMed: <a href="#">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).
<b>Cellular Location</b>	[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

## 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 (AP59091) 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 (AP59091) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.