

# IDI1 Rabbit pAb

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Catalog # AP58272

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q13907</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Rat, Pig, Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	26319
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human IDI1
<b>Epitope Specificity</b>	31-130/227
<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>	Peroxisome.
<b>SIMILARITY</b>	Belongs to the IPP isomerase type 1 family. Contains 1 nudix hydrolase domain.
<b>SUBUNIT</b>	Monomer
<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>	IDI1 is a peroxisomally localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP). These are substrates for the reactions that ultimately result in the synthesis of cholesterol. There is reduction in IPP isomerase activity in peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy.

## Additional Information

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<b>Gene ID</b>	3422
<b>Other Names</b>	Isopentenyl-diphosphate Delta-isomerase 1, 5.3.3.2, Isopentenyl pyrophosphate isomerase 1, IPP isomerase 1, IPP1, IDI1
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
<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

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<b>Name</b>	IDI1
<b>Function</b>	Catalyzes the 1,3-allylic rearrangement of the homoallylic substrate isopentenyl (IPP) to its highly electrophilic allylic isomer, dimethylallyl diphosphate (DMAPP).
<b>Cellular Location</b>	Peroxisome {ECO:0000250   UniProtKB:O35586}.

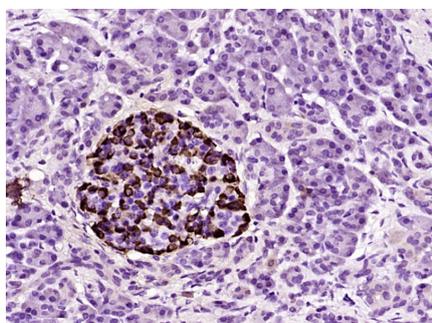
## Background

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IDI1 is a peroxisomally localized enzyme that catalyzes the interconversion of isopentenyl diphosphate (IPP) to its highly electrophilic isomer, dimethylallyl diphosphate (DMAPP). These are substrates for the reactions that ultimately result in the synthesis of cholesterol. There is reduction in IPP isomerase activity in peroxisomal deficiency diseases such as Zellweger syndrome and neonatal adrenoleukodystrophy.

## Images

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Paraformaldehyde-fixed, paraffin embedded (Human pancreatic cancer); 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 (IDI1) Polyclonal Antibody, Unconjugated (AP58272) 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'.