For Research Use Only

GDPD1 Polyclonal antibody

Catalog Number:27861-1-AP Featured Product 2 Publications

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Basic Information

Catalog Number:
27861-1-AP

Size:
150ul , Concentration: 800 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27371

GenBank Accession Number:
BC034432

GeneID (NCBI):
284161

UNIPROT ID:
Q8N9F7

Full Name:
glycerophosphodiester phosphodiesterase domain containing 1

Calculated MW:
36 kDa

Observed MW:
33-36 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse testis tissue, mouse ovary tissue, rat testis tissue

IHC : human testis tissue,

Background Information

Glycerophosphodiester phosphodiesterase domain-containing protein 1 (GDPD1) is an enzyme that hydrolyzes lysoglycerophospholipids to produce lysophosphatidic acid (LPA) and the corresponding amines. GDPD1 shows a preference for 1-O-alkyl-sn-glycero-3-phosphocholine (lyso-PAF), lysophosphatidylethanolamine (lyso-PE) and lysophosphatidylcholine (lyso-PC). GDPD1 may be involved in bioactive N-acylethanolamine biosynthesis from both N-acyl-lysoplasmenylethanolamin (N-acyl-lysoPlsEt) and N-acyl-lysophosphatidylethanolamin (N-acyl-lysoPE) (PMID:25596343, PMID:27637550). GDPD1 is widely expressed with a high expression level in testis. GDPD1 is a prognostic marker in Liver hepatocellular carcinoma.

Notable Publications

Author	Pubmed ID	Journal	Application
Keisuke Kitakaze	34673020	J Lipid Res	WB
Xiaoyu Qi	35538151	Cell Death Differ	WB,IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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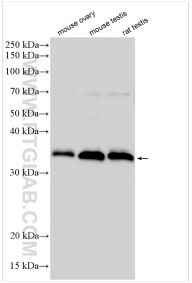
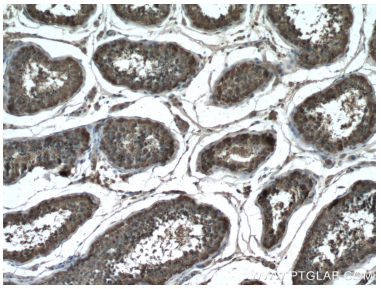
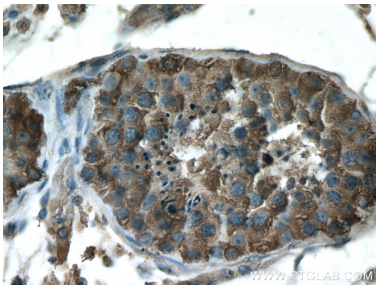
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27861-1-AP (GDPD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 27861-1-AP (GDPD1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 27861-1-AP (GDPD1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).