

ACPL2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59232

Specification

ACPL2 Polyclonal Antibody - Product Information

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

Primary Accession <u>O8TE99</u>

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
S3 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human ACPL2

Epitope Specificity 51-150/480

Isotype IgG
Purity

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

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted.

SIMILARITY Belongs to the histidine acid phosphatase

family.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

ACLP2 (acid phosphatase-like 2), also known as UNQ370 or PRO706, is a 480 amino acid secreted protein that functions to catalyze the H2O-dependent conversion of a phosphate monoester to an alcohol and a phosphate. Expressed as two alternatively spliced isoforms, ACPL2 is encoded by a gene that maps to chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3.

ACPL2 Polyclonal Antibody - Additional Information

Gene ID 92370

Other Names

2-phosphoxylose phosphatase 1, 3.1.3.-, Acid phosphatase-like protein 2, Xylosyl phosphatase $\{ECO:0000303|PubMed:24425863, ECO:0000312|EMBL:BAO45795.1\}$, epididymis luminal protein 124 $\{ECO:0000303|Ref.2, ECO:0000312|EMBL:ACJ13731.1\}$, PXYLP1 (HGNC:26303)



Dilution

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

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.

ACPL2 Polyclonal Antibody - Protein Information

Name PXYLP1 (HGNC:26303)

Function

Responsible for the 2-O-dephosphorylation of xylose in the glycosaminoglycan-protein linkage region of proteoglycans thereby regulating the amount of mature glycosaminoglycan (GAG) chains. Sulfated glycosaminoglycans (GAGs), including heparan sulfate and chondroitin sulfate, are synthesized on the so-called common GAG- protein linkage region (GlcUAbeta1-3Galbeta1-3Galbeta1-4Xylbeta1-O-Ser) of core proteins, which is formed by the stepwise addition of monosaccharide residues by the respective specific glycosyltransferases. Xylose 2-O-dephosphorylation during completion of linkage region formation is a prerequisite for the initiation and efficient elongation of the repeating disaccharide region of GAG chains.

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Note=Colocalizes to Golgi apparatus in a B3GAT3- dependent manner.

Tissue Location

Widely expressed. Strongly expressed in spleen, fetal liver, moderately in placenta, pancreas, kidney, thymus and colon.

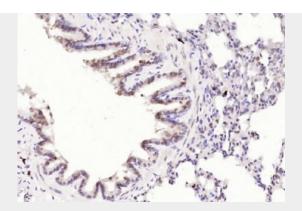
ACPL2 Polyclonal Antibody - Protocols

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

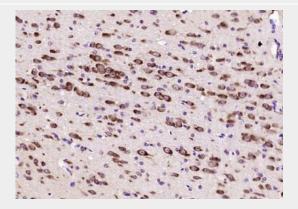
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ACPL2 Polyclonal Antibody - Images

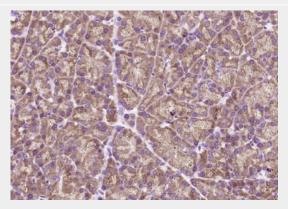




Paraformaldehyde-fixed, paraffin embedded (rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ACPL2) Polyclonal Antibody, Unconjugated (bs-9348R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

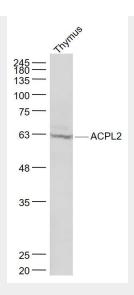


Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ACPL2) Polyclonal Antibody, Unconjugated (bs-9348R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); 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 (ACPL2) Polyclonal Antibody, Unconjugated (bs-9348R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.





Sample:

Thymus (Mouse) Lysate at 40 ug

Primary: Anti- ACPL2 (bs-9348R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kD Observed band size: 62 kD