

## Lipid Phosphate Phosphohydrolase 2. Rabbit Antigen Immunoaffinity Purified Polyclonal , Human, Porcine

Pan Phosphatidic Acid Phosphatase 2C; Pan PPAP

### BACKGROUND

Phosphatidic acid (PA), lysophosphatidic acid, ceramide 1-phosphate (C1P), and sphingosine 1-phosphate (S1P) are lipid mediators generated by phospholipases, sphingomyelinases, and lipid kinases. The major pathway for degradation of these lipids is dephosphorylation catalyzed by members of two classes (types 1 and 2) of phosphohydrolase activities (PAPs). cDNAs encoding two type 2 PAPs, PAP-2a and -2b, have been expressed by transient transfection and shown to catalyze hydrolysis of PA, C1P, and S1P.

### ORDERING INFORMATION

**CATALOG NUMBER**  
X1650P

**SIZE**  
10 Miniblots

**FORM**  
Unconjugated

**HOST/CLONE**  
Rabbit

**FORMULATION**  
Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**  
Lot specific, see vial

**ISOTYPE**  
IgG

**APPLICATIONS**  
Western Blot, Enzyme Immunoassay

### IMMUNOGEN

Synthetic peptide derived from the lipid phosphate phosphohydrolase 2 protein

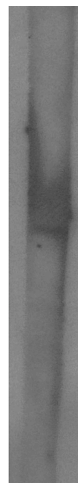
### SPECIES REACTIVITY

Human, Porcine

### Legend:

Western blot analysis using Pan PPAP antibody on human brain lysate.

MW 32.5-



**For research use only. Not for use in human diagnostics or therapeutics.**

**POSITIVE CONTROL/TISSUE EXPRESSION**

Human brain lysate (Cat. No. X1633C)

**COMMENTS**

Antibody can be used for Western blotting (see vial for dilution) and EIA. Optimal concentration should be evaluated by serial dilutions.

**SHIP CONDITIONS**

Ship on dry ice, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -70°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

[1] Leung D.W., Tompkins C.K., White T.; "Molecular cloning of two alternatively spliced forms of human phosphatidic acid phosphatase cDNAs that are differentially expressed in normal and tumor cells."; DNA Cell Biol. 17:377-385(1998).

[2] Roberts R., Sciorra V.A., Morris A.J.; "Human type 2 phosphatidic acid phosphohydrolases. Substrate specificity of the type 2a, 2b, and 2c enzymes and cell surface activity of the 2a isoform."; J Biol. Chem. 273:22059-22067(1998).

[3] Hooks S.B., Ragan S.P., Lynch K.R.; "Identification of a novel human phosphatidic acid phosphatase type 2 isoform."; FEBS Lett. 427:188-192(1998).

[4] Kalnine N., Chen X., Rolfs A., Halleck A., Hines L., Eisenstein S., Koundinya M., Raphael J., Moreira D., Kelley T., LaBaer J., Lin Y., Phelan M., Farmer A.; "Cloning of human full-length CDSs in BD Creator(TM) system donor vector."; Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

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