

Anti-PAP2B Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 34 kDa. Actual: 35 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PAP2B) Polyclonal Antibody, Unconjugated (TMAB-09971) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
	2. Sample: Embryo (Mouse) Lysate at 40 µg Primary: Anti-PAP2B (TMAB-09971) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 35 kD
	3. Sample: Placenta (Mouse) Lysate at 40 µg Primary: Anti-PAP2B (TMAB-09971) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 35 kD
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human PAP2B
Antigen Species:	Human
Gene ID:	8613
Uniprot ID:	O14495

Research Background

Phosphatidic acid phosphatase type 2b (PPAP2b) is a member of the phosphatidic acid phosphatase (PAP) family that function in de novo synthesis of glycerolipids as well as in receptor activated signal transduction mediated by phospholipase D. PAP2b catalyzes the conversion of phosphatidic acid to diacylglycerol and hydrolyzes lysophosphatidic acid, ceramide-1-phosphate and sphingosine-1-phosphate. It is a homodimer glycoprotein

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localized at the cell plasma membrane. Expression promotes adhesion, spreading, and tyrosine phosphorylation of Fak, Shc, Cas and paxillin in endothelial cells. PAP2b induced cell-cell interactions regulate specific intracellular signaling pathways that involve p120-catenin, Fak, Akt, and GSK3 β protein kinases.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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