

LPP3 Rabbit pAb

CatalogNo: YN3435

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 34kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human LPP3 AA range: 205-255

Specificity This antibody detects endogenous levels of LPP3 at Human/Mouse/Rat

| Target Information

Gene name PPAP2B LPP3

Protein Name LPP3

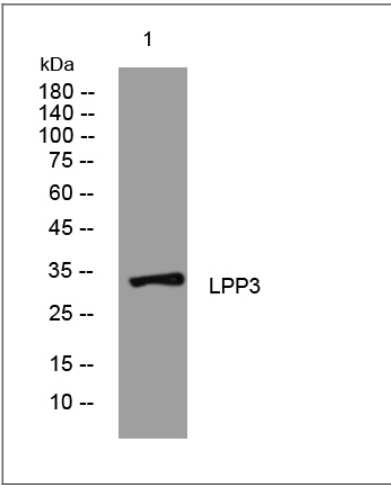
Organism	Gene ID	UniProt ID
Human	8613 ;	O14495 ;
Mouse	67916 ;	Q99JY8 ;
Rat		P97544 ;

Cellular Localization Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Endoplasmic reticulum-Golgi intermediate compartment membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Golgi apparatus, trans-Golgi network membrane ; Multi-pass membrane protein . Membrane raft ; Multi-pass membrane protein . Cycles between the endoplasmic reticulum and the Golgi. .

Tissue specificity Ubiquitously expressed (PubMed:9305923, PubMed:12660161). Highly expressed in heart and placenta (PubMed:9305923).

Function Catalytic activity:A 3-sn-phosphatidate + H(2)O = a 1,2-diacyl-sn-glycerol + phosphate.,enzyme regulation:Inhibited by sphingosine, zinc ions and propanolol. Not inhibited by N-ethylmaleimide treatment.,Function:Catalyzes the conversion of phosphatidic acid (PA) to diacylglycerol (DG). In addition it hydrolyzes lysophosphatidic acid (LPA), ceramide-1-phosphate (C-1-P) and sphingosine-1-phosphate (S-1-P). The relative catalytic efficiency is LPA = PA > C-1-P > S-1-P. May be involved in cell adhesion and in cell-cell interactions.,induction:By epidermal growth factor (EGF), vascular endothelial growth factor (VEGF), basic fibroblast growth factor (bFGF) and phorbol myristate acetate (PMA).,PTM:N-glycosylated. Contains high-mannose oligosaccharides.,similarity:Belongs to the PA-phosphatase related phosphoesterase family.,subunit:Homodimer. This complex seems not to be involved in substrate recognition, it may confer only structural or functional stability.,tissue specificity:Ubiquitously expressed. Highly expressed in heart and placenta.,

Validation Data



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4°over night

Contact information

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