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# PITPNA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20431b

## Product Information

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|---|---|
| **Application** | IHC-P, WB, E |
| **Primary Accession** | Q00169 |
| **Other Accession** | P16446, P48738, P53810, Q2HJ54 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Rabbit, Canine, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Calculated MW** | 31806 |
| **Antigen Region** | 243-270 |

## Additional Information

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| **Gene ID** | 5306 |
| **Other Names** | Phosphatidylinositol transfer protein alpha isoform, PI-TP-alpha, PtdIns transfer protein alpha, PtdInsTP alpha, PITPNA, PITPN |
| **Target/Specificity** | This PITPNA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 243-270 amino acids from the C-terminal region of human PITPNA. |
| **Dilution** | IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | PITPNA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | PITPNA ( HGNC:9001) |
| **Synonyms** | PITPN |
| **Function** | Catalyzes the transfer of phosphatidylinositol (PI) and phosphatidylcholine |

(PC) between membranes (PubMed:10531358, PubMed:14962392, PubMed:15522822, PubMed:18636990, PubMed:22822086). Shows a preference for PI and PC containing shorter saturated or monosaturated acyl chains at the sn-1 and sn-2 positions (PubMed:15522822, PubMed:22822086). Preference order for PC is C16:1 > C16:0 > C18:1 > C18:0 > C20:4 and for PI is C16:1 > C16:0 > C18:1 > C18:0 > C20:4 > C20:3 (PubMed:22822086).

**Cellular Location**

Cytoplasm, cytosol {ECO:0000250|UniProtKB:P16446}. Nucleus {ECO:0000250|UniProtKB:P53810} Note=Primarily localized in the cytosol in its closed state, is enriched on membranes in its open state where it facilitates lipid transfer. {ECO:0000250|UniProtKB:P16446}

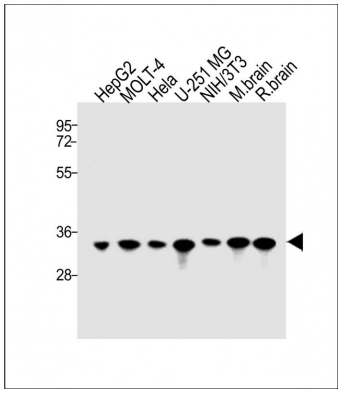
## Background

Catalyzes the transfer of PtdIns and phosphatidylcholine between membranes.

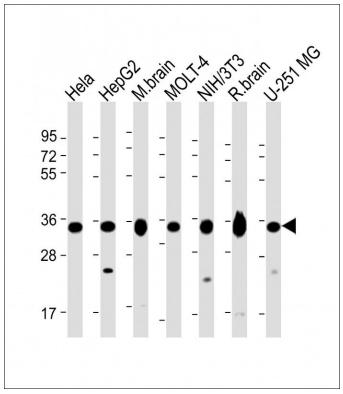
## References


Dickeson S.K., et al. Gene 142:301-305(1994).
Tanaka S., et al. Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases.
Lubec G., et al. Submitted (MAR-2007) to UniProtKB.
Rikova K., et al. Cell 131:1190-1203(2007).
Choudhary C., et al. Science 325:834-840(2009).


## Images

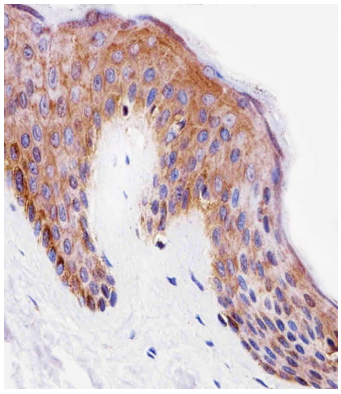



All lanes : Anti-PITPNA Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: MOLT-4 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: U-251MG whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: Mouse brain lysate Lane 7: Rat brain lysate Lysates/proteins at 15 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

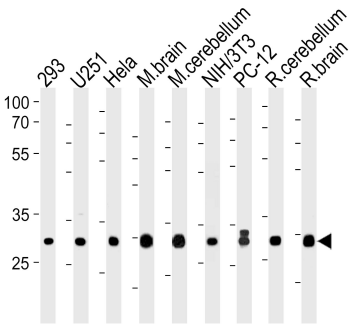



All lanes : Anti-PITPNA Antibody (C-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: mouse brain lysate Lane 4: MOLT-4 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: rat brain lysate Lane 7: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 32 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

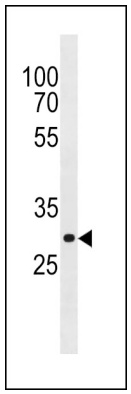
Immunohistochemical analysis of paraffin-embedded H. skin section using PITPNA Antibody (C-term)(Cat#AP20431b). AP20431b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB



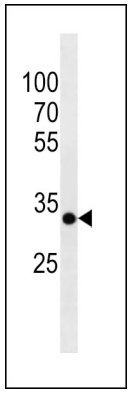
staining.




PITPNA Antibody (C-term) (Cat. #AP20431b) western blot analysis in 293,U251,Hela,mouse NIH/3T3 and rat PC12 cell line and mouse brain cerebellum,rat cerebellum and brain lysates (35ug/lane).This demonstrates the PITPNA antibody detected the PITPNA protein (arrow).

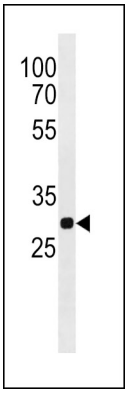



PITPNA Antibody (C-term) (Cat. #AP20431b) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the PITPNA antibody detected the PITPNA protein (arrow).




PITPNA Antibody (C-term) (Cat. #AP20431b) western blot analysis in mouse brain tissue lysates (35ug/lane).This demonstrates the PITPNA antibody detected the PITPNA protein (arrow).

PITPNA Antibody (C-term) (Cat. #AP20431b) western blot analysis in rat cerebellum tissue lysates (35ug/lane).This demonstrates the PITPNA antibody detected the PITPNA protein (arrow).




Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.