# Anti-PIK3C2A Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P104569

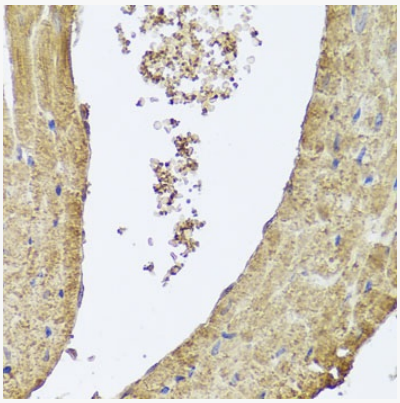
## Product Information

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|---|---|
| Application | WB, IHC-P, IF (Cell)/ICC, IP, ELISA |
| Reactivity | Human, Mouse, Rat |
| Dilution | WB 1:500~1:2000; IHC-P 1:50~1:200; IF 1:50~1:200; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | Recombinant fusion protein containing a sequence corresponding to amino acids 1-200 of human PIK3C2A (NP_002636.2). |
| Format | Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-PIK3C2A Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures. |

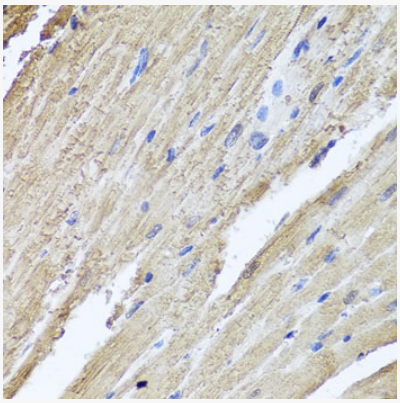
## Protein Information

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|---|---|
| Synonyms | CPK; OCSKD; PI3-K-C2A; PI3K-C2alpha; PI3K-C2-alpha; PI3-K-C2(ALPHA); PIK3C2A. |
| Calculated MW | Calculated MW: 191 kDa; Observed MW: Refer to figures |
| Uniprot ID | O00443 |
| Gene ID | 5286 |
| Background | The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is not sensitive to nanomolar levels of the inhibitor wortmanin. This protein was shown to be able to be activated by insulin and may be involved in integrin-dependent signaling. |

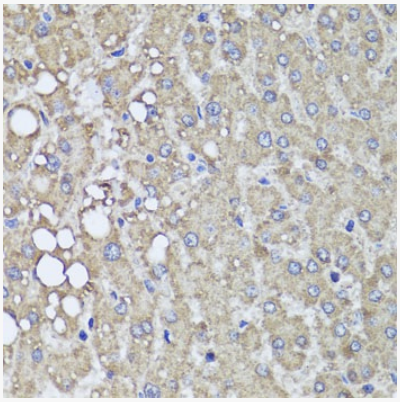
## Validation Images



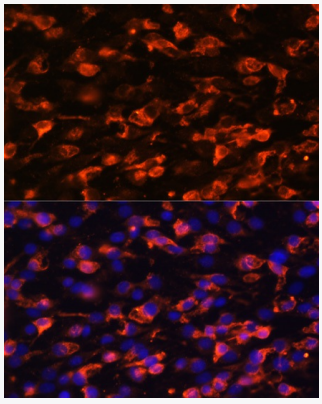
Immunohistochemistry analysis of paraffin-embedded Mouse heart using PIK3C2A Rabbit pAb (P104569) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



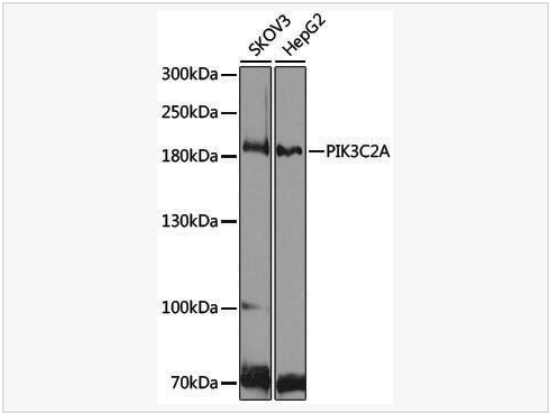
Immunohistochemistry analysis of paraffin-embedded Rat heart using PIK3C2A Rabbit pAb (P104569) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



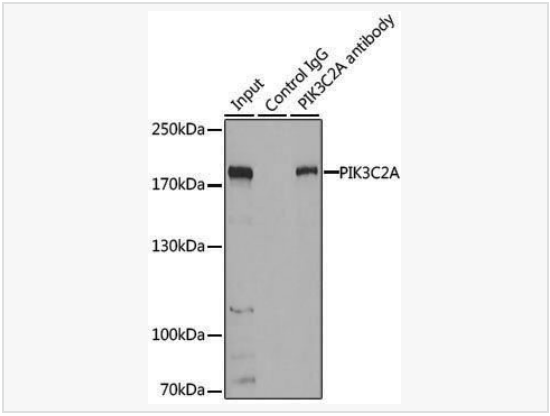
Immunohistochemistry analysis of paraffin-embedded Human liver damage using PIK3C2A Rabbit pAb (P104569) at dilution of 1:100 (40× lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of C6 cells using PIK3C2A Rabbit pAb (P104569) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.




Western blot analysis of various lysates using PIK3C2A Rabbit pAb (P104569) at 1:1,000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 90s.




Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg PIK3C2A antibody (P104569). Western blot was performed from the immunoprecipitate using PIK3C2A antibody (P104569) at a dilution of 1:1000.