# [KD Validated] Anti-Phospho-PLCB3 (Ser537) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021007

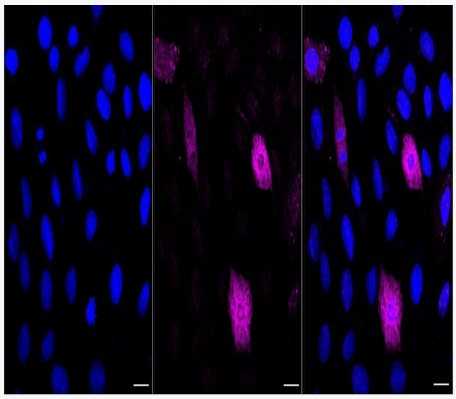
## Product Information

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|---|---|
| Application | WB, IF (Cell)/ICC |
| Reactivity | Human, Mouse, Rat |
| Dilution | WB 1:1,000~1:5,000; IF 1:100~1:1,000 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 22P39Q97 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human Phospho-PLCB3 (Ser537) |
| Format | Affinity purified monoclonal 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 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | [KD Validated] Anti-Phospho-PLCB3 (Ser537) Rabbit mAb [22P39Q97] is for research use only and not for use in diagnostic or therapeutic procedures. |

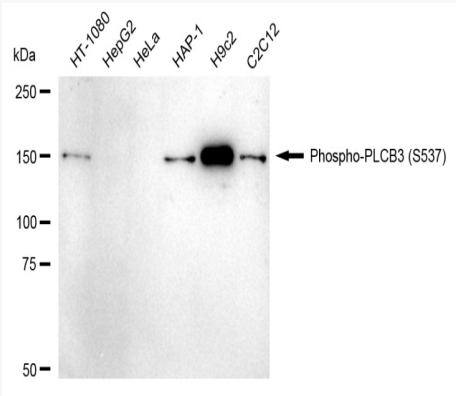
## Protein Information

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|---|---|
| Synonyms | Phospholipase C Beta 3; 1-Phosphatidylinositol 4,5-Bisphosphate Phosphodiesterase Beta-3; Phospholipase C, Beta 3 (Phosphatidylinositol-Specific); Phosphoinositide Phospholipase C-Beta-3; EC 3.1.4.11; Phospholipase C-Beta-3; PLC Beta 3; PLC-Beta-3; SMDCD. |
| Calculated MW | Calculated MW: 139 kDa, Observed MW: 150 kDa |
| Uniprot ID | Q01970 |
| Gene ID | 5331 |
| Background | This gene encodes a member of the phosphoinositide phospholipase C beta enzyme family that catalyze the production of the secondary messengers diacylglycerol and inositol 1,4,5-triphosphate from phosphatidylinositol in G-protein-linked receptor-mediated signal transduction. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010] |
| Cellular Location | Membrane. |

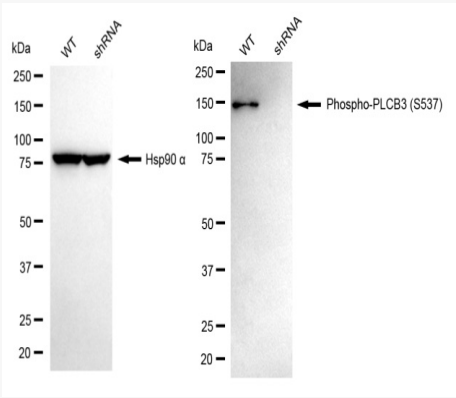
## Validation Images



Immunocytochemical staining of H9c2 cells with Phospho-PLCB3 (S537) antibody (R021007, 1:1,000) . Nuclei were stained blue with DAPI; Phospho-PLCB3 (S537) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.




Western blotting analysis using Phospho-PLCB3 (S537) antibody (R021007). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-PLCB3 (S537) antibody (R021007, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.




Western blotting analysis using phospho-PLCB3 (S537) antibody (R021007). Phospho-PLCB3 (S537) expression in wild-type (WT) and PLCB3 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-PLCB3 (S537) antibody (R021007, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.