

KD-Validated Anti-Phospho-PLCB3 (S537) Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1667**Specification****KD-Validated Anti-Phospho-PLCB3 (S537) Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q01970
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 139 kDa , observed , 150 kDa
Gene Name	KDa
Aliases	PLCB3 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
Immunogen	A synthesized peptide derived from human Phospho-PLCB3 (S537)

KD-Validated Anti-Phospho-PLCB3 (S537) Rabbit Monoclonal Antibody - Additional Information

Gene ID	5331
Other Names	1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase beta-3, 3.1.4.11, Phosphoinositide phospholipase C-beta-3, Phospholipase C-beta-3, PLC-beta-3, PLCB3 {ECO:0000303 PubMed:20966218, ECO:0000312 EMBL:AAA77683.1}

KD-Validated Anti-Phospho-PLCB3 (S537) Rabbit Monoclonal Antibody - Protein Information

Name PLCB3 {ECO:0000303|PubMed:20966218, ECO:0000312|EMBL:AAA77683.1}

Function

Catalyzes the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) (PubMed:20966218, PubMed:29122926, PubMed:37991948, PubMed:9188725). Key transducer of G protein-coupled receptor signaling: activated by G(q)/G(11) G alpha proteins downstream of G protein-coupled receptors activation (PubMed:20966218),

PubMed:37991948). In neutrophils, participates in a phospholipase C-activating N-formyl peptide-activated GPCR (G protein-coupled receptor) signaling pathway by promoting RASGRP4 activation by DAG, to promote neutrophil functional responses (By similarity).

Cellular Location

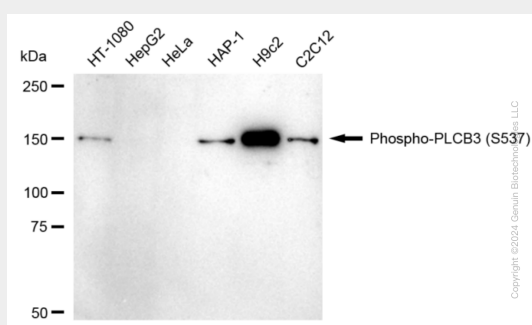
Cytoplasm. Membrane {ECO:0000250|UniProtKB:Q99JE6}. Nucleus {ECO:0000250|UniProtKB:P51432} Note=And particulate fractions. {ECO:0000250|UniProtKB:Q99JE6}

KD-Validated Anti-Phospho-PLCB3 (S537) Rabbit Monoclonal Antibody - Protocols

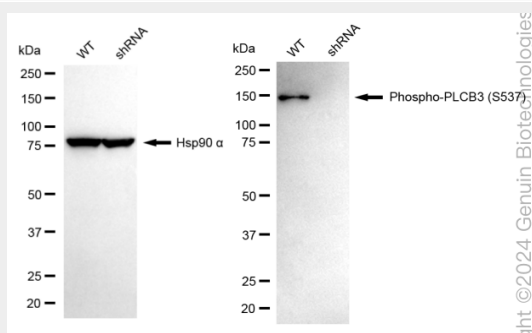
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Phospho-PLCB3 (S537) Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Phospho-PLCB3 (S537) antibody (Cat#AGI1667). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Phospho-PLCB3 (S537) antibody (Cat#AGI1667, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-phospho-PLCB3 (S537) antibody (Cat#AGI1667). 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 anti-phospho-PLCB3 (S537) antibody (Cat#AGI1667, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.