

Product datasheet for **LY300508**

Phospholipase C beta 3 (PLCB3) Human Knockdown Lysate

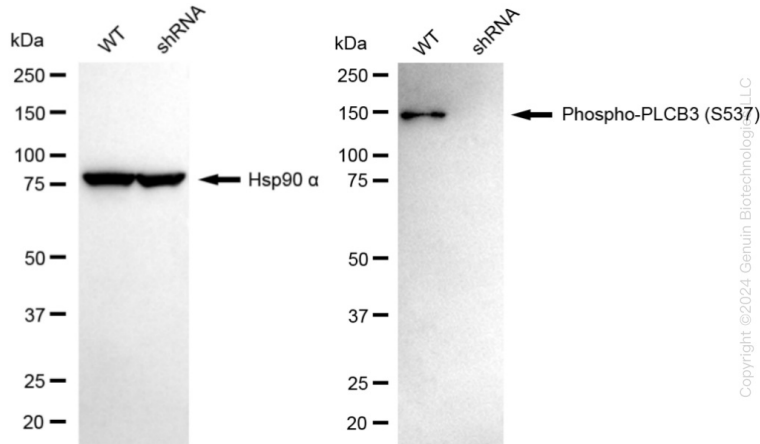
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated PLCB3 Knockdown HT-1080 Cell Lysate
Species:	Human
Tag:	Tag Free
Synonyms:	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
Predicted MW:	139 kDa
Components:	1 vial of 100 ug WT HT-1080 cell lysate 1 vial of 100 ug PLCB3 KD HT-1080 cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	5331
UniProt ID:	Q01970
Protein Families:	Druggable Genome
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway

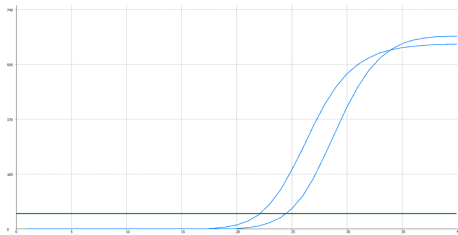


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Product images:



Western blotting analysis. PLCB3 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against PLCB3 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.



Genotype	Ct Value
Wild-Type	21.81
Knock-Down	24.25
ΔCt ($Ct_{KD} - Ct_{WT}$)	2.15
% mRNA Reduction	↓ 77%

RT-qPCR analysis. HT-1080 cells were infected with PLCB3-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt ($Ct_{KD} - Ct_{WT}$) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.