Recombinant Human PLCG2 293 Cell Lysate

Cat. No. PLCG2-3127HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for phospholipase C, gamma 2 (phosphatidylinositol-specific) (PLC G2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration wa s determined using a colorimetric assay. The antigen control carries a C-terminal My c/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	PLCG2 phospholipase C, gamma 2 (phosphatidylinositol-specific) [Homo sapiens]
Official Symbol	PLCG2
Synonyms	PLCG2; phospholipase C, gamma 2 (phosphatidylinositol-specific); 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-2; PLC-IV; PLC-gamma-2; phospholipase C-IV; phosphoinositide phospholipase C-gamma-2; FCAS3;
Gene ID	5336
mRNA Refseq	NM_002661
Protein Refseq	NP_002652
MIM	600220
UniProt ID	P16885
Chromosome Location	16q24.1
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling

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	pathway, conserved biosystem; BCR signaling pathway, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem;
Function	hydrolase activity; phosphatidylinositol phospholipase C activity; protein binding; signal transducer activity;

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