



## Anti-PLCG1 (aa 1192-1291) polyclonal antibody (DPAB-DC2268)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene.
<b>Immunogen</b>	PLCG1 (NP_002651, 1192 a.a. ~ 1291 a.a) partial recombinant protein with GST tag. The sequence is LKNNYSEDLELASLLIKIDIFPAKQENGDLSPFSGTSLRERGSDASGQLFHGRAREGSFE SRYQQPFEDFRISQEHLADHFDSRERRAPRRTRVNGDNRL
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">PLCG1 phospholipase C, gamma 1 [ Homo sapiens (human) ]</a>
Official Symbol	PLCG1
Synonyms	PLCG1; phospholipase C, gamma 1; PLC1; NCKAP3; PLC-II; PLC148; PLCgamma1; 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1; PLC-148; PLC-gamma-1; phospholipase C-II; phospholipase C-148; phosphoinositidase C; phospholipase C-gamma-1; inositoltrisphosphohydrolase; phosphoinositide phospholipase C; phosphatidylinositol phospholipase C; triphosphoinositide phosphodiesterase; phosphoinositide phospholipase C-gamma-1; monophosphatidylinositol phosphodiesterase; 1-phosphatidyl-D-myo-inositol-4,5-bisphosphate; phospholipase C, gamma 1 (formerly subtype 148); 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 1; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma-1;
Entrez Gene ID	<a href="#">5335</a>
Protein Refseq	<a href="#">NP_002651</a>
UniProt ID	<a href="#">P19174</a>
Chromosome Location	20q12-q13.1
Pathway	Adaptive Immune System; Antigen activates B Cell Receptor (BCR) leading to generation of second messengers; Axon guidance; BDNF signaling pathway
Function	calcium ion binding; glutamate receptor binding; neurotrophin TRKA receptor binding; phosphatidylinositol phospholipase C activity