

## Product datasheet for **TA322972**

### Phospholipase C gamma 1 (PLCG1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-1000
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of tyrosine 783 (G-F-Y(p)-V-E) derived from Human PLCG1.
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	155 kDa
Gene Name:	phospholipase C gamma 1
Database Link:	<a href="#">NP_002651</a> <a href="#">Entrez Gene 18803 Mouse</a> <a href="#">Entrez Gene 25738 Rat</a> <a href="#">Entrez Gene 5335 Human</a> <a href="#">P19174</a>



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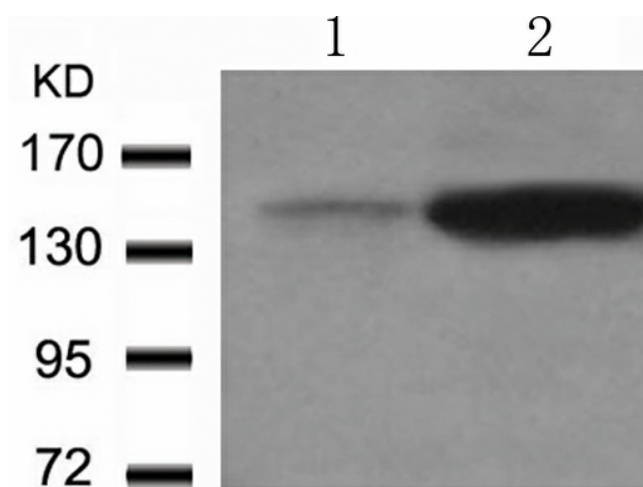
**Background:** The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine 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.

**Synonyms:** NCKAP3; PLC-II; PLC1; PLC148; PLCgamma1

**Protein Families:** Druggable Genome

**Protein Pathways:** Calcium signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glioma, Inositol phosphate metabolism, Leukocyte transendothelial migration, Metabolic pathways, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Phosphatidylinositol signaling system, T cell receptor signaling pathway, VEGF signaling pathway, Vibrio cholerae infection

**Product images:**



Predicted band size: 155 kDa. Positive control: HL60 cells untreated or treated with EGF lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lane 1: HL60 cells untreated with EGF lysate Lane 2: HL60 cells treated with EGF lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)