

## Product datasheet for **AM20220PU-N**

### Phospholipase C gamma 1 (PLCG1) (970-990) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 2D5]

#### Product data:

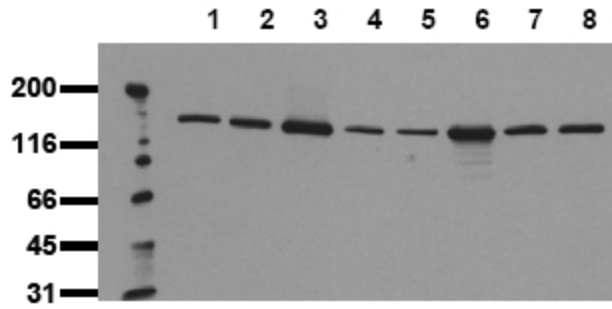
Product Type:	Primary Antibodies
Clone Name:	2D5
Applications:	WB
Recommended Dilution:	<b>Immunoblotting:</b> 0.5 µg/ml for HRPO/ECL detection. <b>Recommended blocking buffer:</b> Casein/Tween 20 based blocking and blot incubation buffer AS00002BU-N or AS00002BU-L. <b>Included Positive Control:</b> Cell lysate from untreated SKOV-3 cells (See Protocols for more details).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to hemocyanin corresponding to amino acids 970-990 of PLCgamma (Phospholipase C gamma).
Specificity:	This monoclonal PLCG antibody (Clone 2D5) specifically recognizes Phospholipase C gamma at 150 kDa in Western blot applications.
Formulation:	PBS State: Purified State: Lyophilized purified Ig fraction. Stabilizer: PEG and Sucrose Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore with 1 ml H <sub>2</sub> O (15 min, RT).
Purification:	Subsequent Ultrafiltration and Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store lyophilized at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20 to -80°C long term. Avoid repeated freezing and thawing.



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<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	150 kDa
<b>Gene Name:</b>	phospholipase C gamma 1
<b>Database Link:</b>	<a href="#">Entrez Gene 18803 Mouse</a> <a href="#">Entrez Gene 25738 Rat</a> <a href="#">Entrez Gene 5335 Human P19174</a>
<b>Background:</b>	Phospholipase C gamma (PLCG) binds to receptor tyrosine kinases, e.g. EGFR, PDGFR, leading to phosphorylation of PLCgamma at Tyr 771, 783 and 1245. Phosphorylation of Tyr 783 leads to enzymatic activation of PLCgamma. PLC-gamma hydrolyzes phosphatidylinositol-4,5-bisphosphate (PIP <sub>2</sub> ), thus generating the second messengers inositol-1,4,5-triphosphate (IP <sub>3</sub> ) and diacylglycerol (DAG).
<b>Synonyms:</b>	Phospholipase C gamma, PLC-gamma
<b>Note:</b>	Protocol: <b>Positive Control Provided: Cell lysate from untreated SKOV-3 cells</b>
	<b>Description:</b> Cell lysate from untreated SKOV-3 cells, ovary adenocarcinoma (Human)
	<b>Format:</b> Lyophilized cell lysate from serum starved SKOV-3 cells.
	<b>Reconstitution:</b> Restore by addition of 200 µl H <sub>2</sub> O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.
	<b>Storage:</b> Aliquote and store frozen. Avoid repeated freeze/thaw cycles.
	<b>Application:</b> The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 80.000 cells. Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins.
	<b>Please note:</b> The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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:**



Detection of endogenous Phospholipase C gamma: Whole cell lysates of EGF stimulated serum starved tumor cells (ca. 20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab AM20220PU-N PLCG antibody (Clone 2D5) at 0.5 ug/ml for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: A431 Lane 2: A549 Lane 3: SKOV3 Lane 4: OVCAR5 Lane 5: HaCaT Lane 6: PC3 Lane 7: HeLa Lane 8: HepG2