

## Product datasheet for **TA389195**

### PLCG1 Mouse Antibody [Clone ID: M156]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	M156
Applications:	ICC, IP, WB
Recommended Dilution:	<b>WB:</b> 1:1000 <b>ICC:</b> 1:100
Reactivity:	Human, Rat, Mouse, Chicken
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M156) was generated from a synthetic peptide corresponding to amino acids in the N-terminal region of human PLCy1. This sequence is highly conserved in rat and mouse PLCy1, and has low homology to PLCy2.
Specificity:	The antibody detects a 150 kDa* protein in human A431, Hct116, and Jurkat cells, as well as in mouse brain.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN <sub>3</sub> and 50% glycerol
Concentration:	lot specific
Purification:	Protein A Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	150
Database Link:	<a href="#">P19174</a>



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**Background:**

Phosphoinositide-specific phospholipase C (PLC) plays a significant role in transmembrane signaling. In response to extracellular stimuli such as hormones, growth factors, and neurotransmitters, PLC hydrolyzes phosphatidylinositol 4,5-bisphosphate (PIP<sub>2</sub>) to generate two secondary messengers: inositol 1,4,5-triphosphate (IP<sub>3</sub>) and diacylglycerol (DAG). At least four families of PLCs have been identified: PLC $\beta$ , PLC $\gamma$ , PLC $\delta$ , and PLC $\epsilon$ . Phosphorylation is one of the key mechanisms that regulates the activity of PLC. PLC $\delta$  is activated by both receptor and nonreceptor tyrosine kinases. PLC $\gamma$ 1 forms a complex with EGF and PDGF receptors, which leads to phosphorylation at tyrosine 771, 783, and 1245. In addition, antigen receptor-induced activation of PLC $\gamma$ 1 leads to phosphorylation at both Tyr-775 and Tyr-783. These two sites are equally important for activation of enzymatic activity.

**Note:**

Protein G purified tissue culture supernatant.