

## Mouse Monoclonal Antibody to PLCG2

<b>Catalogue Number</b>	sAP-1071
<b>Target Molecule</b>	<b>Name:</b> PLCG2 <b>Aliases:</b> FCAS3; APLAID; PLC-IV; PLC-gamma-2 <b>MW:</b> 148kDa <b>Entrez Gene ID:</b> 5336
<b>Description</b>	The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3.
<b>Immunogen</b>	Synthesized peptide of human PLCG2 (AA: phospho-Tyrosine 753 of human Phospholipase Cg2 (cERDINSLpYDVSRMYV)).
<b>Reactive Species</b>	Human;
<b>Clone</b>	MM3A8B6;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Mol Cell Biol. 2011 Mar;31(6):1240-51. ; 2. Am J Hum Genet. 2012 Oct 5;91(4):713-20.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**