

Rabbit PLCG2 Polyclonal Antibody | anti-PLCG2 antibody

PLCG2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA304798	Rabbit	Human, Mouse, Rat	Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PLCG2; Polyclonal Antibody; PLCG2 Antibody; APLAID; FCAS3; anti-PLCG2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total PLCG2 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	1265
Applicable Applications for anti-PLCG2 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PLCG2.
SDS-PAGE MW	150 kD
Target Name	PLCG2
Preparation and Storage	Store at -20°C

IMAGES


IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using PLCG2 antibody.


WB (Western Blot)

Western blot analysis of extracts of various cell lines,using PLCG2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PLCG2 antibody	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 (PIP2) to generate two secondary messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG) (1). At least four families of PLCs have been identified: PLCb, PLCg, PLCd and PLCeta. The PLCb subfamily includes four members, PLCb1-4. All four members of the subfamily are activated by a- or b-g-subunits of the heterotrimeric G-proteins (2,3).Phosphorylation is one of the key mechanisms that regulates the activity of PLC. Phosphorylation of Ser1105 by PKA or PKC inhibits PLCb3 activity (4,5). Ser537 of PLCb3 is phosphorylated by CaMKII, and this phosphorylation may contribute to the basal activity of PLCb3. PLCg is activated by both receptor and nonreceptor tyrosine kinases (6).PLCg forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLCg at Tyr771, 783 and 1245 (7). Phosphorylation by Syk at Tyr783 activates the enzymatic activity of PLCg1 (8).
Product Categories/Family for anti-PLCG2 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	117320537
NCBI GeneID	5336
NCBI Accession #	NP_002652.2
NCBI GenBank Nucleotide #	NM_002661.4
UniProt Accession #	P16885; Q3ZTS2; Q59H45; Q969T5; D3DUL3
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2
NCBI Official Synonym Full Names	phospholipase C, gamma 2 (phosphatidylinositol-specific)
NCBI Official Symbol	PLCG2
NCBI Official Synonym Symbols	FCAS3; APLAID; PLC-IV; PLC-gamma-2
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2
UniProt Gene Name	PLCG2
UniProt Synonym Gene Names	PLC-IV; PLC-gamma-2
UniProt Entry Name	PLCG2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.