

Datasheet for ABIN271905

anti-Phospholipase C gamma 2 antibody**2** Images[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Phospholipase C gamma 2 (PLCG2)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Phospholipase C gamma 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Specificity:	This antibody detects endogenous levels of PLCG2 protein. (region surrounding Arg747)
Cross-Reactivity (Details):	Species reactivity (expected):Mouse and Rat. Species reactivity (tested):Human.
Purification:	Affinity Chromatography using epitope-specific immunogen

Target Details

Target:	Phospholipase C gamma 2 (PLCG2)
Alternative Name:	PLCG2 (PLCG2 Products)
Background:	Phosphoinositide-specific phospholipase C (PLC) plays a crucial role in the initiation of receptor mediated signal transduction through the generation of the two second messengers, inositol 1,4,5-triphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. There are

Target Details

many mammalian PLC isozymes, including PLC β 1, PLC β 2, PLC β 3, PLC β 4, PLC γ 1, PLC γ 2, PLC δ 1, PLC δ 2 and PLC ϵ . PLC δ exists as four different isoforms. PLC δ 1, a calcium signal amplifier, is activated by an atypical GTP-binding protein. In addition, PLC δ 1 is an effector for GTP-binding protein transglutaminase II-mediated oxytocin receptor and α 1B-adrenoreceptor signaling. Mouse PLC δ 1 is highly expressed in brain, heart, lung and testis. PLC δ is abnormally accumulated in autopsied brains with Alzheimer's disease (AD), suggesting that it may play a role in the pathology of AD. PLC δ 2 is markedly expressed in type II intestinal metaplasia and in the adenocarcinoma. When PLC δ 2 is expressed in type I intestinal metaplasia, the metaplasia is generally considered benign, yet evolves toward neoplastic transformation. Thus, PLC δ 2 expression may be a possible marker of gastric malignant transformation. Synonyms: 1-phosphatidylinositol-4, 5-bisphosphate phosphodiesterase gamma-2, PLC-IV, PLC-gamma-2, Phosphoinositide phospholipase C-gamma-2, Phospholipase C-IV, Phospholipase C-gamma-2

Molecular Weight: approx. 148 kDa

Gene ID: 5336

NCBI Accession: [NP_002652](#)

UniProt: [P16885](#)

Pathways: [RTK Signaling](#), [WNT Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Inositol Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Toll-Like Receptors Cascades](#), [VEGF Signaling](#), [BCR Signaling](#)

Application Details

Application Notes: ELISA: 1/5000-1/10000. Western Blot: 1/500-1/1000. Immunohistochemistry: 1/50-1/200.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Phosphate buffered saline (PBS), pH ~7.2, 0.05 % Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images

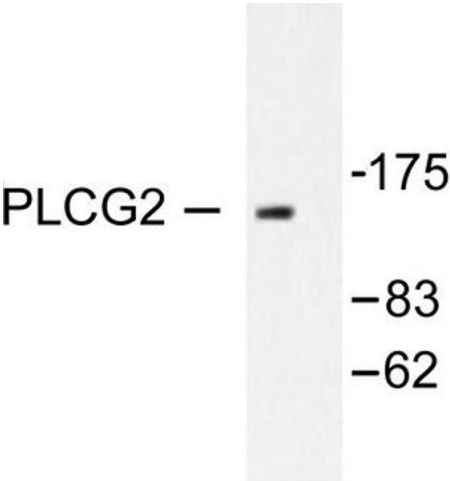


Image 1.

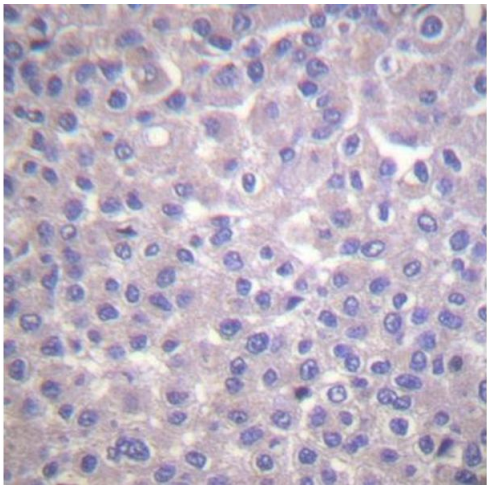


Image 2.