

Datasheet for ABIN711161

anti-Phospholipase C gamma 1 antibody (pTyr775)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µL
Target:	Phospholipase C gamma 1 (PLCG1)
Binding Specificity:	pTyr775
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Phospholipase C gamma 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human PLC gamma 1 around the phosphorylation site of Tyr775
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Phospholipase C gamma 1 (PLCG1)
Alternative Name:	Plc gamma 1 (PLCG1 Products)

Target Details

Background: Synonyms: PLCG1phospho Y775, PLC 1, PLC 148, PLC gamma 1, PLC II, PLC1, PLC148, PLCG 1, PLCG1, PLCgamma1, PLCII, triphosphoinositide phosphodiesterase, 1 phosphatidyl D myo inositol 4 5 bisphosphate, 1 phosphatidylinositol 4 5 bisphosphate, 1 phosphatidylinositol 4 5 bisphosphate phosphodiesterase gamma 1, inositoltrisphosphohydrolase, monophosphatidylinositol phosphodiesterase, phosphatidylinositol phospholipase C, phosphodiesterase gamma 1, phosphoinositidase C, phosphoinositide phospholipase C, Phospholipase C 148, phospholipase C gamma 1 formerly subtype 148, Phospholipase C gamma 1, phospholipase C-148, PLCG1_HUMAN.

Background: The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

Gene ID: 5335

Pathways: [RTK Signaling](#), [WNT Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Thyroid Hormone Synthesis](#), [Inositol Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Skeletal Muscle Fiber Development](#), [G-protein mediated Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Interaction of EGFR with phospholipase C-gamma](#), [VEGFR1 Specific Signals](#), [VEGF Signaling](#)

Application Details

Application Notes: WB 1:100-1000
IHC-P 1:100-500
IF(IHC-P) 1:50-200

Restrictions: For Research Use only

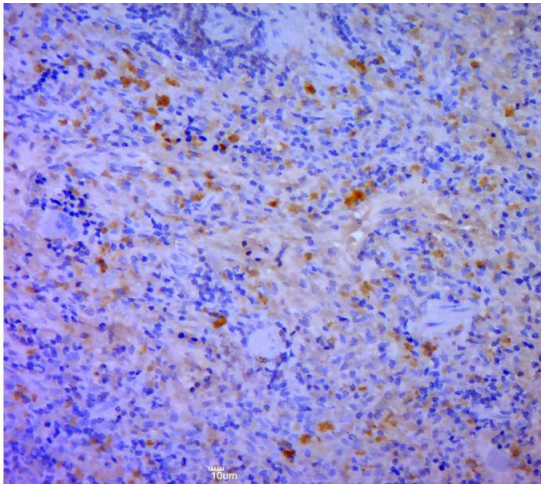
Handling

Format: Liquid

Handling

Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % 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.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded rat spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with PLC gamma 1(Tyr775) Polyclonal Antibody, Unconjugated (bs-5546R) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.