SZABO SCANDIC

Part of Europa Biosite

# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


**SZABO-SCANDIC HandelsgmbH**

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

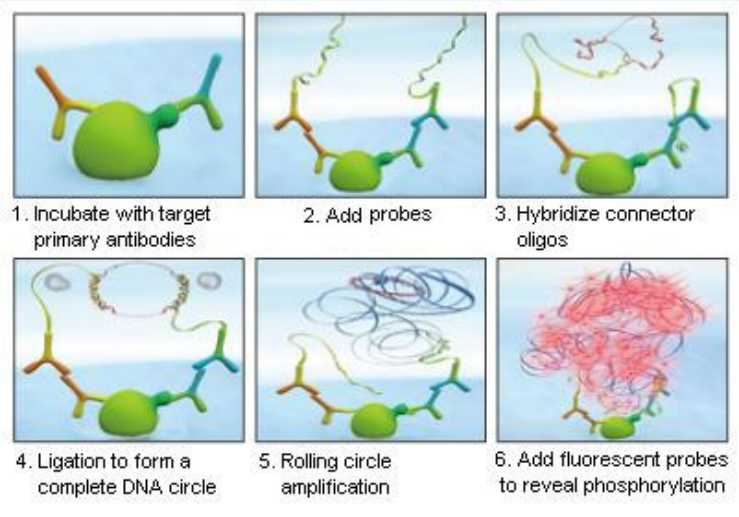
# PLCG2(Phospho Y1217) & PLCG2 Protein Phosphorylation Antibody Pair

**Catalog # :** DP0295 **規格 :** [ 1 Set ]

**List All**

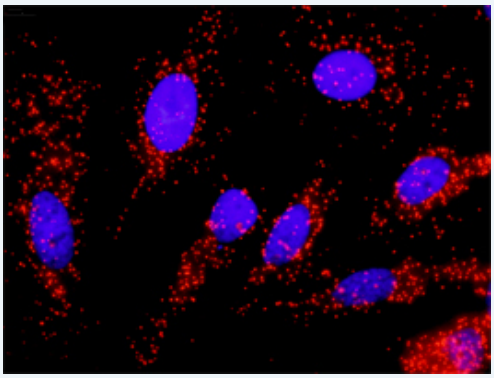
## Specification

**Product Description:** This protein phosphorylation antibody pair set comes with two antibodies, one against the PLCG2 protein, and the other against the specific Y1217 phosphorylated site of PLCG2 for use in *in situ* Proximity Ligation Assay. See Publication Reference below.




**Reactivity:** Human

**Quality Control Testing:** Dual recognition immunofluorescence result.



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse purified polyclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

**Supplied Product:** Antibody pair set content:
1. Phospho-PLCG2 Y1217 rabbit polyclonal antibody (20 ul)
In PBS (without Mg2+ and Ca2+), 150 mM NaCl, pH 7.4 (0.02% sodium azide, 50% glycerol)
2. PLCG2 mouse purified polyclonal antibody (40 ug)
In 1x PBS, pH 7.2
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

## Application Image

*In situ* Proximity Ligation Assay (Cell)

| | |
|---|---|
| **Storage Instruction:** | Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use. |

## Publication Reference


1. In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.
   Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M,Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.
   Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. Direct observation of individual endogenous protein complexes in situ by proximity ligation.
   Soderberg O, Gullberg M, Jarvius M , Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.
   Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. Cytokine detection by antibody-based proximity ligation.
   Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.
   Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. Protein detection using proximity-dependent DNA ligation assays.
   Fredriksson S, GullbergM, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.
   Nat Biotechnol. 2002 May;20(5):473-7.
5. Highly specific detection of phosphorylated proteins by Duolink
   Mats Gullberg and Ann-Catrin Andersson
   Nature Methods 6. 2009


## Applications

***In situ* Proximity Ligation Assay (Cell)**

## Gene Information

| | |
|---|---|
| **Entrez GeneID:** | 5336 |
| **Gene Name:** | PLCG2 |
| **Gene Alias:** | - |
| **Gene Description:** | phospholipase C, gamma 2 (phosphatidylinositol-specific) |
| **Omim ID:** | 600220 |
| **Gene Ontology:** | Hyperlink |
| **Gene Summary:** | Enzymes of the phospholipase C family catalyze the hydrolysis of phospholipids to yield diacylglycerols and water-soluble phosphorylated derivatives of the lipid head groups. A number of these enzymes have specificity for phosphoinositides. Of the phosphoinositide-specific phospholipase C enzymes, C-beta is regulated by heterotrimeric G protein-coupled receptors, while the closely related C-gamma-1 (PLCG1; MIM 172420) and C-gamma-2 enzymes are controlled by receptor tyrosine kinases. The C-gamma-1 and C-gamma-2 enzymes are composed of phospholipase domains that flank regions of homology to noncatalytic domains of the SRC oncogene product, SH2 and SH3. [supplied by OMIM |
| **Other Designations:** | phospholipase C gamma 2,phospholipase C, gamma 2,phospholipase C, gamma 2 (phosphatidylyinositol-specific) |

## Gene Pathway

B cell receptor signaling pathway Calcium signaling pathway

Epithelial cell signaling in Helicobacter pylori infection ErbB signaling pathway
Fc epsilon RI signaling pathway Fc gamma R-mediated phagocytosis Glioma
Inositol phosphate metabolism Leukocyte transendothelial migration Metabolic pathways
Natural killer cell mediated cytotoxicity Neurotrophin signaling pathway
Non-small cell lung cancer Pathways in cancer Phosphatidylinositol signaling system
VEGF signaling pathway Vibrio cholerae infection

**Related Disease**

Bipolar Disorder Breast cancer Breast Neoplasms Genetic Predisposition to Disease
HIV Infections Mental Disorders Ovarian cancer Tobacco Use Disorder