

**PLCG1 (Ab-771) Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50025**

**Specification**

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**PLCG1 (Ab-771) Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P19174</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	149 KDa
Antigen Region	756-787

**PLCG1 (Ab-771) Antibody - Additional Information**

**Gene ID** 5335

**Other Names**

1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase gamma-1, PLC-148, Phosphoinositide phospholipase C-gamma-1, Phospholipase C-II, PLC-II, Phospholipase C-gamma-1, PLC-gamma-1, PLCG1, PLC1

**Dilution**

WB~~ 1:1000  
IHC~~1:50-1:100

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**PLCG1 (Ab-771) Antibody - Protein Information**

**Name** PLCG1 ([HGNC:9065](#))

**Synonyms** PLC1

**Function**

Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand-mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, EGFR, FGFR1, FGFR2, FGFR3 and FGFR4 (By similarity). Plays a role in actin reorganization and cell migration (PubMed:<a href="http://www.uniprot.org/citations/17229814" target="\_blank">17229814</a>). Guanine nucleotide exchange factor that binds the GTPase DNM1 and catalyzes the dissociation of GDP,

allowing a GTP molecule to bind in its place, therefore enhancing DNMT1-dependent endocytosis (By similarity).

#### Cellular Location

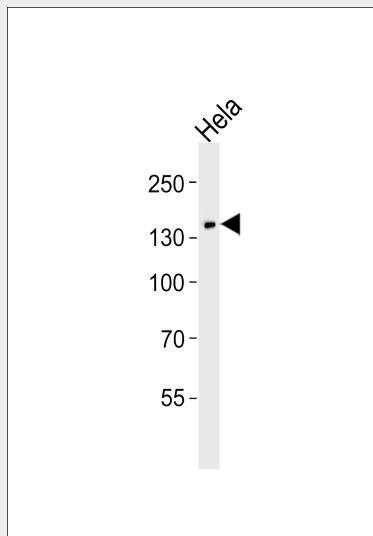
Cell projection, lamellipodium. Cell projection, ruffle. Note=Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

#### PLCG1 (Ab-771) Antibody - Protocols

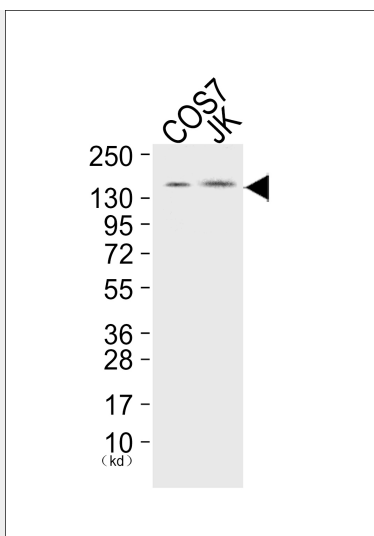
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

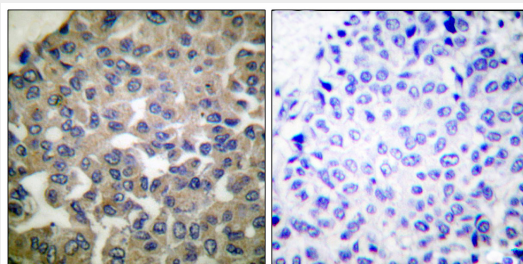
#### PLCG1 (Ab-771) Antibody - Images



Western blot analysis of lysates from HeLa cell line, using PLCG1 (Ab-771) Antibody (B0079). B0079 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg.



Western blot analysis of extracts from COS7 cells (Lane 1), and JK cells (Lane 2), using PLCG1 (Ab-771) Antibody. The lane on the left is treated with synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PLCG1 (Ab-771) antibody .

### **PLCG1 (Ab-771) Antibody - Background**

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### **PLCG1 (Ab-771) Antibody - References**

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- Deloukas P.,et al.Nature 414:865-871(2001).
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- Mohammadi M.,et al.Mol. Cell. Biol. 11:5068-5078(1991).
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