Product Datasheet

PLCG1 (Ab-771) Antibody

Catalog No: #33125

Package Size: #33125-1 50ul #33125-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

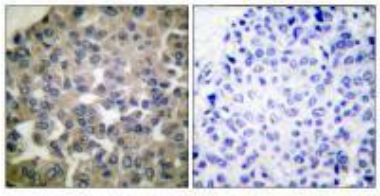
Product Name	PLCG1 (Ab-771) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total PLCG1 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human PLCG1 around the phosphorylation site of tyrosine 771 (P-D-Y-G-A).
Conjugates	Unconjugated
Target Name	PLCG1
Other Names	Phospholipase C gamma 1; PLC148; PHOSPHOLIPASE C-148;
Accession No.	Swiss-Prot: P19174NCBI Gene ID: 5335
SDS-PAGE MW	150kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

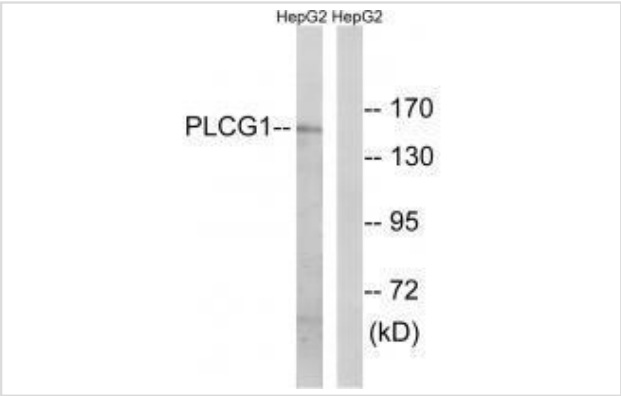
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

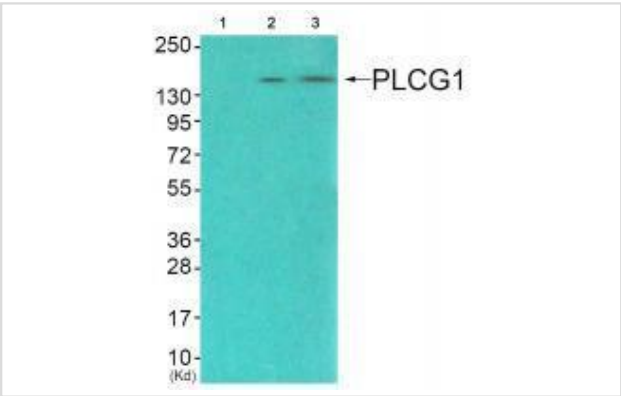
Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PLCG1 (Ab-771) antibody #33125.



Western blot analysis of extracts from COS7 cells treated with EGF (200ng/ml, 30min), using PLCG1 (Ab-771) antibody #33125.



Western blot analysis of extracts from COS7 cells (Lane 2), and JK cells (Lane 3), using PLCG1 (Ab-771) antiobdy #33125. The lane on the left is treated with synthesized peptide.

Background

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, FGFR1, FGFR2, FGFR3 and FGFR4. Plays a role in actin reorganization and cell migration.

Denis Tvorogov, J. Cell Sci., Feb 2005; 118: 601 - 610.

Brenda J. Irvin, Mol. Cell. Biol., Dec 2000; 20: 9149 - 9161.

Benoit Poulin, J. Biol. Chem., Feb 2000; 275: 6411.

Ichiro Nakamura, J. Cell Biol., Jan 2001; 152: 361.

Published Papers

Xiaoyu Chen;Chengxia Shu;Wenqiang Li;Qiangqiang Hou;Guangmei Luo;Kexin Yang;Xiaoxing Wu el at., Discovery of a Novel Src Homology-2 Domain Containing Protein Tyrosine Phosphatase-2 (SHP2) and Cyclin-Dependent Kinase 4 (CDK4) Dual Inhibitor for the Treatment of Triple-Negative Breast Cancer, , (2022)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.