For Research Use Only

PLCB3 Monoclonal antibody

Catalog Number:66668-1-lg 4 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66668-1-lg BC142681

Size: GeneID (NCBI):
150ul , Concentration: 1100 ug/ml by 5331

Nanodrop and 1000 ug/ml by Bradford_{UNIPROT ID}: method using BSA as the standard; Q01970

Source: Full Name: Mouse phospholina

Mouse phospholipase C, beta 3
Isotype: (phosphatidylinositol-specific)
IgG1 Calculated MW:

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Immunogen Catalog Number: 1234 aa, 139 kDa
AG15845 Observed MW:

150 kDa

Applications

Tested Applications: WB, IHC, ELISA

Cited Applications:

WB

Species Specificity: human, mouse, rat

Cited Species: human, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Positive Controls:**

WB: HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, HeLa cells, Sp2/0 cells, human peripheral blood platelets, HEK-293 cells, K-562, LNCaP cells, K-562

Purification Method:

Protein G purification

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

CloneNo.:

1B8B3

cells

IHC: human breast cancer tissue, human colon tissue

Background Information

PLCB3 is a member of the phosphoinositide phospholipase C beta enzyme family that catalyze the production of the secondary messengers diacylglycerol and inositol 1,4,5-triphosphate from phosphatidylinositol in G-protein-linked receptor-mediated signal transduction. Six subfamilies of PLCs (B, G, D, E, Z and H) constitute part of ubiquitous signaling cascades that translate hormonal signals into intracellular events, leading to alternations in cell function. PLCB isoforms 1-4 are stimulated by G-protein activation (Gaq/11 and/or G $\beta\gamma$). Independent of its enzymatic activity, PLCB3 inhibits the proliferation of hematopoietic stem cells (HSCs) and myeloid cells.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|----------------|-------------|
| Hongdong Song | 35703476 | J Food Sci | WB |
| Yijie Yang | 32662128 | J Food Biochem | WB |
| Wenna Zhang | 31975557 | J Cell Mol Med | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

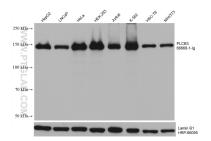
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:

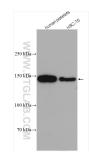
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

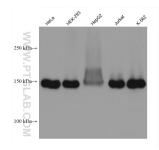
Selected Validation Data



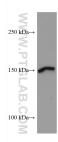
Various lysates were subjected to SDS PAGE followed by western blot with 66668-1-Ig (PLCB3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control



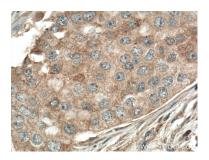
Various lysates were subjected to SDS PAGE followed by western blot with 66668-1-1g (PLCB3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



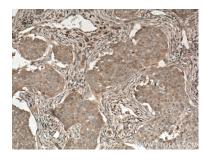
Various lysates were subjected to SDS PAGE followed by western blot with 66688-1-1g (PLCB3 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Sp2/O cells were subjected to SDS PAGE followed by western blot with 66668-1-1g (PLCB3 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66668-1-lg (PLCB3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 66668-1-lg (PLCB3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).