

For Research Use Only

PLCG2 Monoclonal antibody

Catalog Number: 67011-1-Ig **1 Publications**



Basic Information

Catalog Number: 67011-1-Ig	GenBank Accession Number: BC007565	Purification Method: Protein G purification
Size: 150ul , Concentration: 1900 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5336	CloneNo.: 2F8H5
Source: Mouse	Full Name: phospholipase C, gamma 2 (phosphatidylinositol-specific)	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Isotype: IgG1	Calculated MW: 148 kDa	
Immunogen Catalog Number: AG24355	Observed MW: 148 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : Ramos cells, Raji cells, Daudi cells IHC : human tonsillitis tissue,
Cited Applications: WB	
Species Specificity: Human	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Phospholipase C-gamma2 (PLCG2) is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3.

Notable Publications

Author	Pubmed ID	Journal	Application
Yuuki Obata	37616163	Cell Rep	WB

Storage

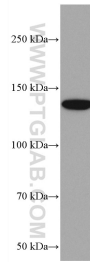
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

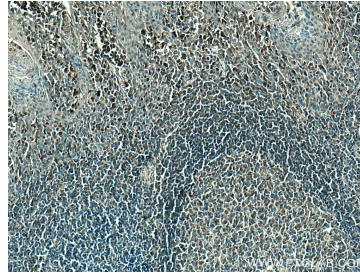
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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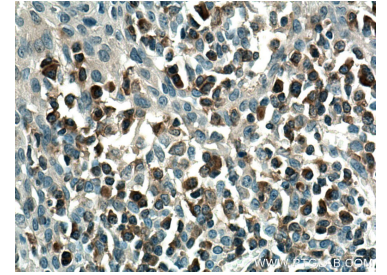
Selected Validation Data



Ramos cells were subjected to SDS PAGE followed by western blot with 67011-1-Ig (PLCG2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67011-1-Ig (PLCG2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67011-1-Ig (PLCG2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).