

For Research Use Only

# PLCG2 Monoclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 67011-1-Ig	<b>GenBank Accession Number:</b> BC007565	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1900 µg/ml	<b>GeneID (NCBI):</b> 5336	<b>CloneNo.:</b> 2F8H5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P16885	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> phospholipase C, gamma 2 (phosphatidylinositol-specific)	
<b>Immunogen Catalog Number:</b> AG24355	<b>Calculated MW:</b> 148 kDa	
	<b>Observed MW:</b> 148 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB: Ramos cells, Raji cells, Daudi cells IHC: human tonsillitis tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> 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

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

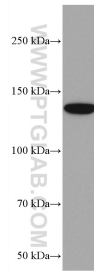
T: 4006900926

E: Proteintech-CN@ptglab.com

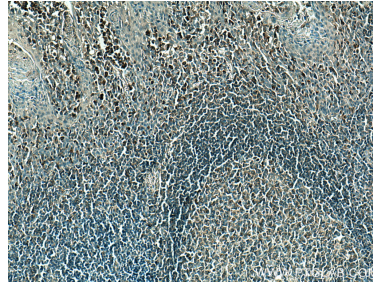
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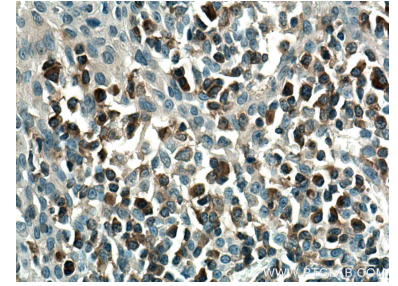
## Selected Validation Data



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).