

For Research Use Only

# cGAS Monoclonal antibody, PBS Only

Catalog Number: 68640-1-PBS



## Basic Information

<b>Catalog Number:</b> 68640-1-PBS	<b>GenBank Accession Number:</b> BC113608	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 115004	<b>CloneNo.:</b> 2G2C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8N884	
<b>Isotype:</b> IgG1	<b>Full Name:</b> chromosome 6 open reading frame 150	
<b>Immunogen Catalog Number:</b> AG30074	<b>Calculated MW:</b> 496 aa, 54 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human

## Background Information

cGAS (Cyclic GMP-AMP synthase), also known as C6orf150 or h-cGAS, is a 522 aa protein. cGAS mediates innate immune responses against invading pathogens, or against self-dsDNA, which causes autoimmune disorders. The cGAS sensor not only recognizes cytosolic dsDNA but also synthesizes the second messenger cGAMP from ATP and GTP, which then binds to and activates STING. STING undergoes conformational changes and translocation from the endoplasmic reticulum to the Golgi apparatus to encounter TBK1 and IRF3, eventually triggering the production of type I IFNs.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

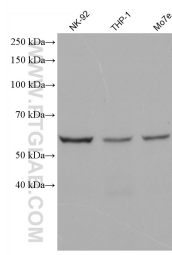
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.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 68640-1-Ig (cGAS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68640-1-PBS in a different storage buffer formulation.