

For Research Use Only

# COG1 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 68642-1-PBS



## Basic Information

<b>Catalog Number:</b> 68642-1-PBS	<b>GenBank Accession Number:</b> BC021985	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9382	<b>CloneNo.:</b> 2D8D11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8WTW3	
<b>Isotype:</b> IgG1	<b>Full Name:</b> component of oligomeric golgi complex 1	
<b>Immunogen Catalog Number:</b> AG33924	<b>Calculated MW:</b> 109 kDa	
	<b>Observed MW:</b> 100-109 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, rabbit

## Product Information

68642-1-PBS targets COG1 as part of a matched antibody pair:

MP51262-1: 68642-1-PBS capture and 68642-2-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

COG1 is one protein of the COG complex which is a heterooctameric complex that regulates intraGolgi trafficking and the integrity of the Golgi compartment in eukaryotic cells. It is reported that this protein is required for steps in the normal medial and trans-Golgi-associated processing of glycoconjugates and plays a role in the organization of the Golgi-localized complex. COG1 has a calculated molecular weight of 109 kDa and western blot analysis detected COG1 at 100-109 kDa (PMID: 16537452).

## Storage

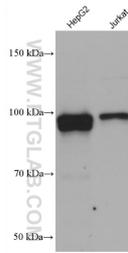
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

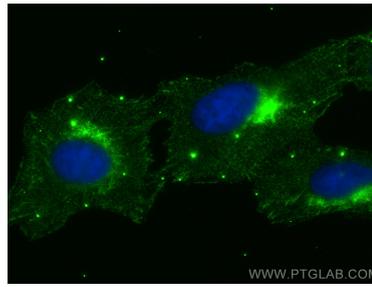
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

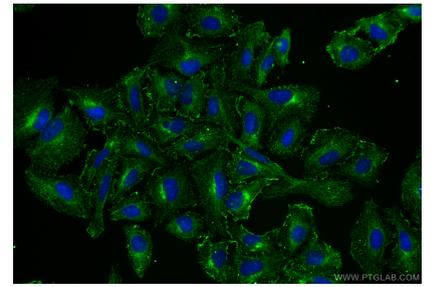
## Selected Validation Data



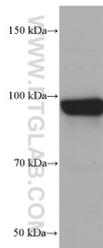
Various lysates were subjected to SDS PAGE followed by western blot with 68642-1-Ig (COG1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68642-1-PBS in a different storage buffer formulation.



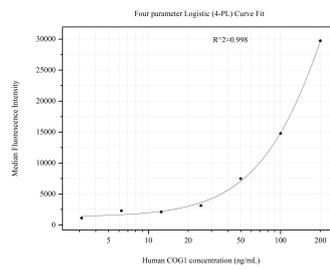
Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using COG1 antibody (68642-1-Ig, Clone: 2D8D11) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 68642-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using COG1 antibody (68642-1-Ig, Clone: 2D8D11) at dilution of 1:1500 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 68642-1-PBS in a different storage buffer formulation.



LNCaP cells were subjected to SDS PAGE followed by western blot with 68642-1-Ig (COG1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68642-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP51262-1, COG1 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68642-1-PBS. Detection antibody: 68642-2-PBS. Standard: Ag33924. Range: 3.125-200 ng/mL.