

For Research Use Only

# CEP89, CCDC123 Monoclonal antibody, PBS Only



Catalog Number: 68112-1-PBS

## Basic Information

<b>Catalog Number:</b> 68112-1-PBS	<b>GenBank Accession Number:</b> BC136328	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84902	<b>CloneNo.:</b> 1F12C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q965T8	
<b>Isotype:</b> IgG1	<b>Full Name:</b> coiled-coil domain containing 123	
<b>Immunogen Catalog Number:</b> AG28339	<b>Calculated MW:</b> 783 aa, 90 kDa	
	<b>Observed MW:</b> 90 kDa	

## Applications

**Tested Applications:**  
WB, IF, Indirect ELISA

**Species Specificity:**  
Human, mouse

## Background Information

CCDC123 (as known as CEP123), also named as CEP89, encodes for a protein required for ciliogenesis. It plays a role in mitochondrial metabolism by modulating complex IV activity. It has been shown that CEP123 is localized to the distal appendages of the mother centriole and the localization of CEP123 is cell cycle-dependent with its levels decreasing during mitosis. CEP123 depletion can cause defects in ciliary vesicle formation and prevent the formation of a ciliary vesicle at the distal end of the mother centriole. It is possible that CEP123 is involved in regulating the recruitment of membranes to the centrosome through its interaction with CEP290 (PMID:23575228, 23789104, 23348840).

## Storage

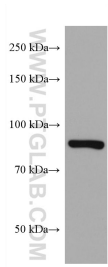
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

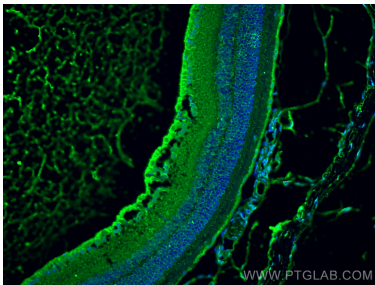
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

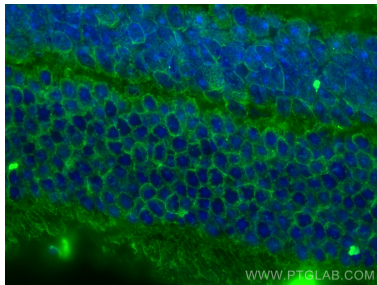
Selected Validation Data



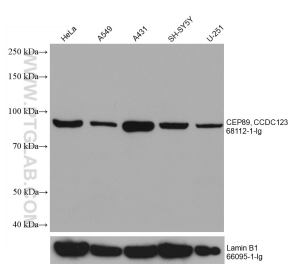
Neuro-2a cells were subjected to SDS PAGE followed by western blot with 68112-1-Ig (CCDC123 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68112-1-PBS in a different storage buffer formulation.



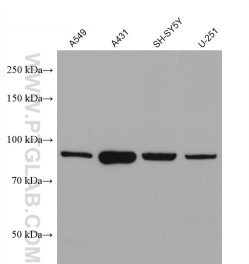
Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using CEP89, CCDC123 antibody (68112-1-Ig, Clone: 1F12C5 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68112-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using CEP89, CCDC123 antibody (68112-1-Ig, Clone: 1F12C5 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68112-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 68112-1-Ig (CEP89, CCDC123 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control. This data was developed using the same antibody clone with 68112-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 68112-1-Ig (CCDC123 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68112-1-PBS in a different storage buffer formulation.