For Research Use Only

CEP89, CCDC123 Monoclonal antibody

Catalog Number:68112-1-Ig

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
68112-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG28339

GenBank Accession Number:
BC136328

GeneID (NCBI):
84902

UNIPROT ID:
Q96ST8

Full Name:
coiled-coil domain containing 123

Calculated MW:
783 aa, 90 kDa

Observed MW:
90 kDa

Purification Method:
Protein G purification

CloneNo.:
1F12C5

Recommended Dilutions:
WB 1:1000-1:4000
IF-P 1:200-1:800

Applications

Tested Applications:
WB, IF-P, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : HeLa cells, A549 cells, Neuro-2a cells, A431 cells, SH-5Y5Y cells, U-251 cells, SH-SY5Y cells

IF-P : mouse eye tissue, hTERT-RPE1 cells

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 centriolecep and the localization of CEP123 is cell cycle-dependent with its levels decreasing during mitosis. CEP123 depletion can cause defects in ciliary vesicle formationcep 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).

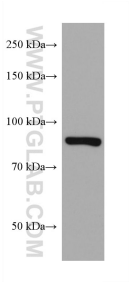
Storage

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

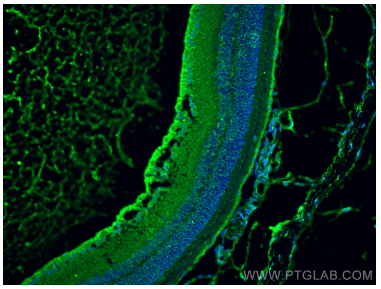
***** 20ul sizes contain 0.1% BSA**

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

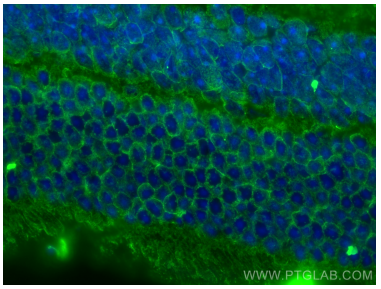
Selected Validation Data



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.



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 Goat Anti-Mouse IgG(H+L).



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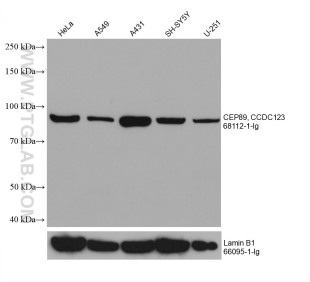
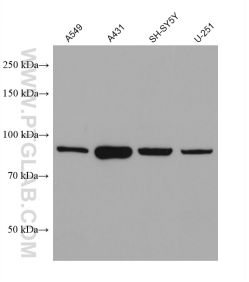


Various lysates were subjected to SDS PAGE followed by western blot with 68112-1-Ig (CEP89, CCDC123 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control.



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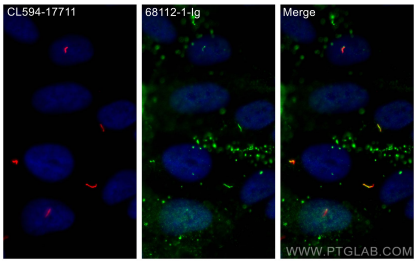

Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using CEP89, CCDC123 antibody (68112-1-Ig, Clone: 1F12C5) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CoraLite®594 ARL13B antibody (CL594-17711, red).