

For Research Use Only

# CoraLite® Plus 488-conjugated CEP89, CCDC123 Monoclonal antibody



Catalog Number: **CL488-68112**

## Basic Information

<b>Catalog Number:</b> CL488-68112	<b>GenBank Accession Number:</b> BC136328	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84902	<b>CloneNo.:</b> 1F12C5
<b>Source:</b> Mouse	<b>Full Name:</b> coiled-coil domain containing 123	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 783 aa, 90 kDa	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG28339	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : HeLa cells,
<b>Species Specificity:</b> 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 -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, 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:

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## Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CoraLite® Plus 488 CEP89, CCDC123 antibody (CL488-68112, Clone: 1F12C5) at dilution of 1:200.