

**CE164 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10981a****Specification**

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**CE164 Antibody (N-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">O9UPV0</a>
Other Accession	<a href="#">NP_055771.4</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	164314
Antigen Region	246-274

**CE164 Antibody (N-term) - Additional Information****Gene ID** 22897**Other Names**

Centrosomal protein of 164 kDa, Cep164, CEP164, KIAA1052, NPHP15

**Target/Specificity**

This CE164 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 246-274 amino acids from the N-terminal region of human CE164.

**Dilution**

WB~~1:1000

FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CE164 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CE164 Antibody (N-term) - Protein Information****Name** CEP164**Synonyms** KIAA1052, NPHP15

**Function** Plays a role in microtubule organization and/or maintenance for the formation of primary cilia (PC), a microtubule-based structure that protrudes from the surface of epithelial cells. Plays a critical role in G2/M checkpoint and nuclear divisions. A key player in the DNA damage-activated ATR/ATM signaling cascade since it is required for the proper phosphorylation of H2AX, RPA, CHEK2 and CHEK1. Plays a critical role in chromosome segregation, acting as a mediator required for the maintenance of genomic stability through modulation of MDC1, RPA and CHEK1.

#### **Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Nucleus  
Note=Localizes specifically to very distally located appendage structures on the mature centriole from which initiate PC formation (PubMed:26337392). Persisted at centrioles throughout mitosis  
Expressed in chromatin-enriched nuclear fraction of HeLa cells. In response to DNA damage, it translocates to nuclear foci that contain the DNA damage response proteins KAT5/TIP60 and CHEK1

#### **Tissue Location**

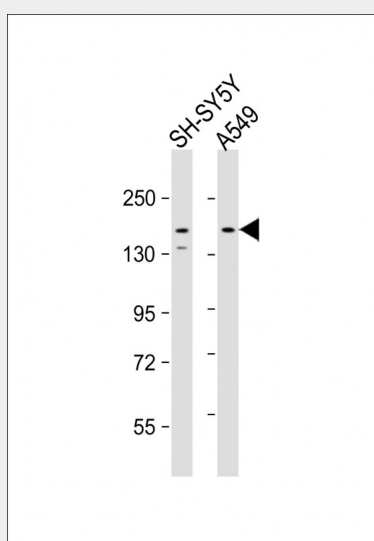
Expressed in several cell lines.

### **CE164 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

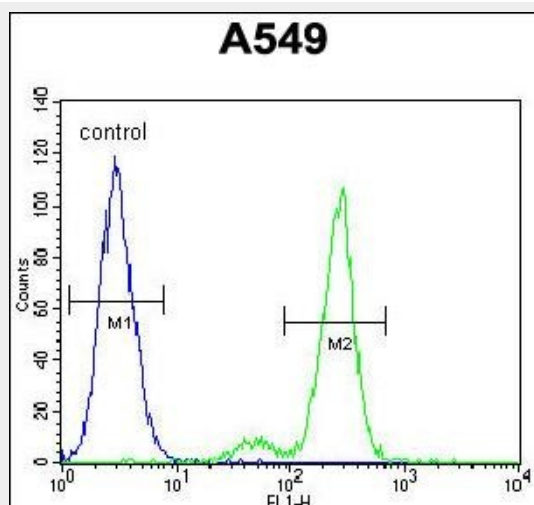
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **CE164 Antibody (N-term) - Images**



All lanes : Anti-CE164 Antibody (N-term) at 1:1000 dilution Lane 1: SH-SY5Y whole cell lysate Lane 2: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 164 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



CE164 Antibody (N-term) (Cat. #AP10981a) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **CE164 Antibody (N-term) - Background**

Plays a role in microtubule organization and/or maintenance for the formation of primary cilia (PC), a microtubule-based structure that protrudes from the surface of epithelial cells. Plays a critical role in G2/M checkpoint and nuclear divisions. A key player in the DNA damage-activated ATR/ATM signaling cascade since it is required for the proper phosphorylation of H2AX, RPA, CHK2 and CHK1. Plays a critical role in chromosome segregation, acting as a mediator required for the maintenance of genomic stability through modulation of MDC1, RPA and CHK1.

#### **CE164 Antibody (N-term) - References**

- Pan, Y.R., et al. Cell Cycle 8(4):655-664(2009)
- Sivasubramaniam, S., et al. Genes Dev. 22(5):587-600(2008)
- Graser, S., et al. J. Cell Biol. 179(2):321-330(2007)
- Petretti, C., et al. EMBO Rep. 7(4):418-424(2006)
- Zick, A., et al. Nucleic Acids Res. 33(13):4235-4242(2005)