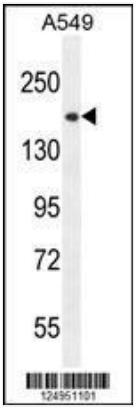
CE164 Antibody – Rabbit Polyclonal

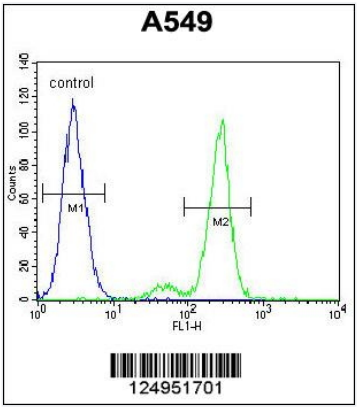
PRODUCT OVERVIEW

Product Name	CE164, Polyclonal Antibody
Full Product Name	CE164, NT (CEP164, KIAA1052, Centrosomal protein of 164kD) (FITC)
Product Gene Name	anti-CE164 antibody
Product Synonym Gene Name	CEP164
Product Synonym Names	CEP164; KIAA1052; Centrosomal protein of 164kD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	phenotype 614848
3D Structure	ModBase 3D Structure for Q9UPV0
Immunogen	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.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CE164 antibody	Antibodies; Centrosomal Proteins
Applications Tested/Suitable for anti-CE164 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-CE164 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CE164 antibody	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.
Product References and Citations for anti-CE164 antibody	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).

Other Notes	Small volumes of anti-CE164 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CE164 purchase	MBS6284900 is an antibody targeting CE164. Also known as CE164, NT (CEP164, KIAA1052, Centrosomal protein of 164kD) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CE164 antibody
CE164 Antibody (N-term) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the CE164 antibody detected the CE164 protein (arrow).



Flow Cytometry (FC/FACS) of anti-CE164 antibody
CE164 Antibody (N-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CE164. It may not necessarily be applicable to this product.

NCBI GI #	115648142
NCBI GeneID	22897
NCBI Accession #	NP_055771.4
UniProt Primary Accession #	Q9UPV0
UniProt Related Accession #	Q9UPV0
GenBank Nucleotide #	NP_055771.4
NCBI Official Full Name	centrosomal protein of 164 kDa isoform 1
NCBI Official Synonym Full Names	centrosomal protein 164
NCBI Official Symbol	CEP164
NCBI Official Synonym Symbols	NPHP15
UniProt Protein Name	Centrosomal protein of 164 kDa
UniProt Gene Name	CEP164
UniProt Synonym Gene Names	KIAA1052; NPHP15; Cep164
UniProt Entry Name	CE164_HUMAN
NCBI Protein Information	centrosomal protein of 164 kDa
NCBI Summary for CE164	This gene encodes a centrosomal protein involved in microtubule organization, DNA damage response, and chromosome segregation. The encoded protein is required for assembly of primary cilia and localizes to mature centrioles. Defects in this gene are a cause of nephronophthisis-related ciliopathies. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]

UniProt Comments for CE164	CEP164: 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. Defects in CEP164 can be a cause of nephronophthisis-related ciliopathies (NPHP-RC), a group of recessive diseases that affect kidney, retina and brain. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: nucleoplasm; centriole; centrosome; extracellular space; cytosol Molecular Function: protein binding Biological Process: mitosis; cell division; organelle organization and biogenesis; cilium biogenesis; mitotic cell cycle; DNA repair; G2/M transition of mitotic cell cycle Disease: Nephronophthisis 15
Research Articles on CE164	**1.** these data support a conserved role for CEP164 throughout the development of numerous organs, which, we suggest, accounts for the multi-system disease phenotype of CEP164-mediated Nephronophthisis-related ciliopathies
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/ce164/6284900