SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-CEP164/FITC Conjugated antibody

Catalog Number: SL13851R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CEP164/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human CEP128
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC/IF=1:50-200 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat)
Background:	background: 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] **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,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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Cytoplasm; cytoskeleton; centrosome; centriole. Nucleus. Localizes specifically to very distally located appendage structures on the mature centriole from which initiate PC formation. Persisted at centrioles throughout mitosis. Expressed in chromatin-enriched nuclear fraction of HeLa cells. **Tissue Specificity:** Expressed in several cell lines. **Post-translational modifications:** Phosphorylation at Ser-186 is induced upon DNA-damage caused by treatment with IR irradiation, UV irradiation, hydroxyurea or amphidicolin. Also MDC1-mediated chromatin remodeling is critical for DNA damage-induced phosphorylation. **Similarity:** Contains 1 WW domain. **Database links:** **Entrez Gene:** 22897 Human **Entrez Gene:** 214552 Mouse **Entrez Gene:** 363055 Rat **SwissProt:** Q9UPV0 Human **SwissProt:** Q5DU05 Mouse **Unigene:** 504009 Human **Unigene:** 260103 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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