For Research Use Only

CEP164 Polyclonal antibody

Catalog Number:22227-1-AP Featured Product 65 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
22227-1-AP

Size:
150ul , Concentration: 293 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17570

GenBank Accession Number:
BC000602

GeneID (NCBI):
22897

UNIPROT ID:
Q9UPV0

Full Name:
centrosomal protein 164kDa

Calculated MW:
1460 aa, 164 kDa

Observed MW:
164 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:1000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, canine

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells,

IP : RPE1 cells,

IHC : human colon tissue, human cervical cancer tissue

IF/ICC : HeLa cells, A549 cells, PC-3 cells, MDCK cells, hTERT-RPE1 cells

Background Information

CEP164, also called KIAA1052 or NPHP15, is a 1460 amino acid protein containing 1 WW domain. CEP164 localizes in the microtubule organizing center and is expressed in several cell lines. CEP164 plays a role in microtubule organization and/or maintenance for the formation of primary cilia, a microtubule-based structure that protrudes from the surface of epithelial cells. CEP164 plays a critical role in the G2/M checkpoint and nuclear divisions. The expression of CEP164 is normally limited to the mother centriole, and CEP164 can be used as a useful marker for mother centriole.

Notable Publications

Author	Pubmed ID	Journal	Application
Ana Martin-Hurtado	31554934	Sci Rep	IF
Marine H Laporte	36125182	EMBO J	IF
Louise A Stephen	26386247	Elife	IF

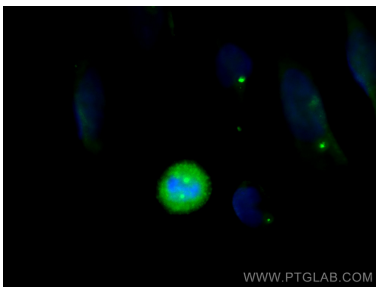
Storage

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

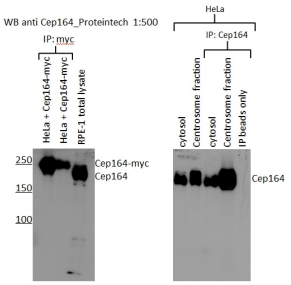
*** 20ul sizes contain 0.1% BSA

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

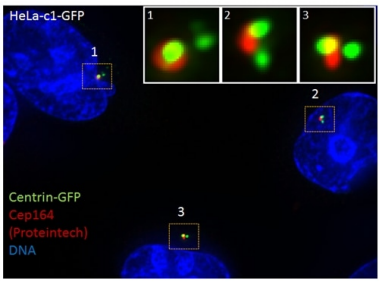
Selected Validation Data



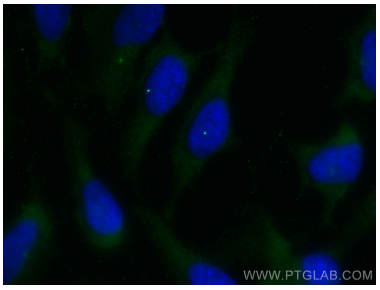
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CEP164 antibody (22227-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



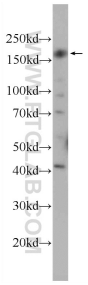
WB results of CEP164 (22227-1-AP, 1:500) with RPE1 cells by Laboratory of Protein Dynamics and Signaling; Center for Cancer Research, National Cancer Institute.



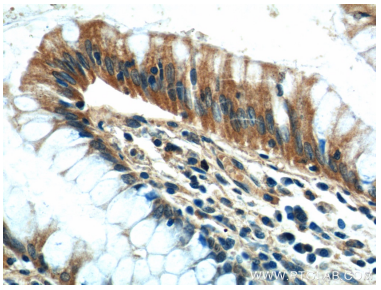
IF results of CEP164 (22227-1-AP, 1:1000) with HeLa cells (1.5% formaldehyde, 10 min RT) by Laboratory of Protein Dynamics and Signaling; Center for Cancer Research, National Cancer Institute.



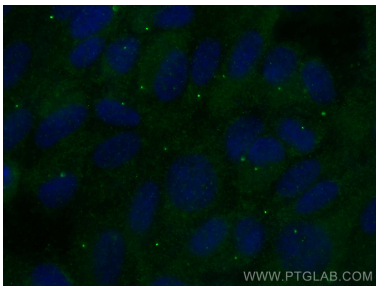
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CEP164 antibody (22227-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



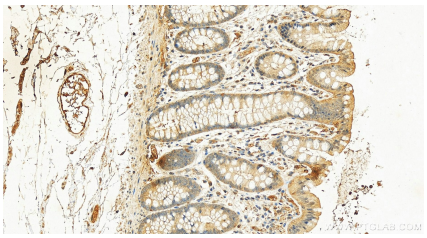
HEK-293 cells were subjected to SDS PAGE followed by western blot with 22227-1-AP (CEP164 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 22227-1-AP (CEP164 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed hTERT-RPE1 cells using CEP164 antibody (22227-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 22227-1-AP (CEP164 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).