



# CEP170 Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-03758                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>                   | CEP170                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human CEP170. AA range:701-750                                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>                 | CEP170 Monoclonal Antibody detects endogenous levels of CEP170 protein.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                          |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>                    | centrosomal protein 170kDa;Centrosomal protein of 170 kDa;CEP170;FAM68A;KAB;KARP 1 binding protein;KARP1 binding protein;KIAA0470;KARP-1-binding protein;KARP1-binding protein                                                                                                                                                                                                                                                                |
| <b>Observed Band</b>               | 160kD                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated Molecular Weight</b> | 160kD                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cell Pathway</b>                | Cytoplasm, cytoskeleton, microtubule organizing center, centrosome .<br>Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole .<br>Cytoplasm, cytoskeleton, spindle . Associated with the mature mother centriole.<br>Associated with spindle microtubules during mitosis. Localizes to the distal appendage region of the centriole (PubMed:31789463). Localizes at the centriole proximal ends (PubMed:31789463). . |
| <b>Tissue Specificity</b>          | Brain,Cervix carcinoma,Epithelium,Skin,Testis,                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Function</b>                    | function:Plays a role in microtubule organization.,PTM:Phosphorylated; probably by PLK1. Phosphorylated upon DNA damage, probably by ATM or ATR., similarity:Belongs to the CEP170 family.,similarity:Contains 1 FHA domain., subcellular location:Associated with the mature mother centriole. Associated with spindle microtubules during mitosis.,subunit:Interacts with PLK1.,                                                            |



## Background

centrosomal protein 170(CEP170) Homo sapiens The product of this gene is a component of the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells. During interphase, the encoded protein localizes to the sub-distal appendages of mature centrioles, which are microtubule-based structures thought to help organize centrosomes. During mitosis, the protein associates with spindle microtubules near the centrosomes. The protein interacts with and is phosphorylated by polo-like kinase 1, and functions in maintaining microtubule organization and cell morphology. The human genome contains a putative transcribed pseudogene. Several alternatively spliced transcript variants of this gene have been found, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008],

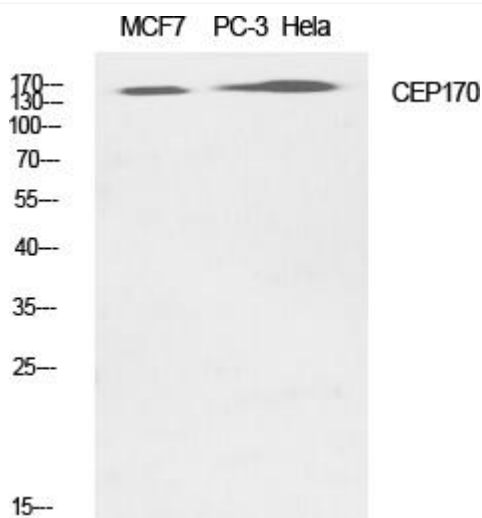
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using CEP170 Monoclonal Antibody