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# CEP55 Polyclonal Antibody

Catalog # AP69045

## Product Information

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| **Application** | WB, IHC-P, IF, ICC, E |
| **Primary Accession** | Q53EZ4 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 54178 |

## Additional Information

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| **Gene ID** | 55165 |
| **Other Names** | CEP55; C10orf3; URCC6; Centrosomal protein of 55 kDa; Cep55; Up-regulated in colon cancer 6 |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

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| **Name** | CEP55 ( HGNC:1161) |
| **Function** | Plays a role in mitotic exit and cytokinesis (PubMed: 16198290, PubMed:17853893). Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis (PubMed:17853893). Not required for microtubule nucleation (PubMed:16198290). Plays a role in the development of the brain and kidney (PubMed:28264986). |
| **Cellular Location** | Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cleavage furrow. Midbody, Midbody ring. Midbody. Note=Present at the centrosomes at interphase. A small portion is associated preferentially with the mother centriole, whereas the majority localizes to the pericentriolar material. During mitosis, loses affinity for the centrosome at the onset of prophase and diffuses throughout the cell. This dissociation from the centrosome is phosphorylation-dependent. May remain localized at the centrosome during mitosis in certain cell types. Appears at the cleavage |

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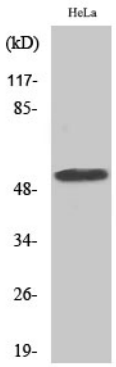
| | furrow in late anaphase and in the midbody in cytokinesis |
| **Tissue Location** | Expressed in embryonic brain (PubMed:28264986). Expressed in fetal brain ganglionic eminence, kidney tubules and multinucleate neurons in the temporal cortex (PubMed:28264986) Expressed in adult brain, cerebellum, kidney tubules, intestine and muscles (at protein level) (PubMed:28264986, PubMed:28295209). Widely expressed, mostly in proliferative tissues. Highly expressed in testis Intermediate levels in adult and fetal thymus, as well as in various cancer cell lines. Low levels in different parts of the digestive tract, bone marrow, lymph nodes, placenta, fetal heart and fetal spleen. Hardly detected in brain. |

## Background

Plays a role in mitotic exit and cytokinesis (PubMed: 16198290, PubMed:17853893). Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis (PubMed:17853893). Not required for microtubule nucleation (PubMed:16198290). Plays a role in the development of the brain and kidney (PubMed:28264986).

## Images




Western Blot analysis of various cells using CEP55 Polyclonal Antibody

## Citations

- CEP55 Positively Affects Tumorigenesis of Esophageal Squamous Cell Carcinoma and Is Correlated with Poor Prognosis

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