

CEP63 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP4805c**Specification**

CEP63 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q96MT8](#)**CEP63 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 80254**Other Names**

Centrosomal protein of 63 kDa, Cep63, CEP63

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CEP63 Antibody (Center) Blocking Peptide - Protein Information**Name** CEP63 ([HGNC:25815](#))**Function**

Required for normal spindle assembly (PubMed:21406398, PubMed:21983783, PubMed:26297806, PubMed:35793002). Plays a key role in mother-centriole-dependent centriole duplication; the function seems also to involve CEP152, CDK5RAP2 and WDR62 through a stepwise assembled complex at the centrosome that recruits CDK2 required for centriole duplication (PubMed:21983783, PubMed:26297806). Reported to be required for centrosomal recruitment of CEP152; however, this function has been questioned (PubMed:21983783, PubMed:26297806). Also recruits CDK1 to centrosomes (PubMed:21406398). Plays a role in DNA damage response (PubMed:21406398). Following DNA damage, such as double-strand breaks (DSBs), is removed from centrosomes; this leads to the inactivation of spindle assembly and delay in mitotic progression (PubMed:21406398). Promotes stabilization of FXR1 protein by inhibiting FXR1 ubiquitination (PubMed:35989368).

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite Note=Colocalizes with CDK5RAP2, CEP152 and WDR62 in a discrete ring around the proximal end of the parental centriole. At this site, a cohesive structure is predicted to engage parental centrioles and procentrioles.

CEP63 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CEP63 Antibody (Center) Blocking Peptide - Images**CEP63 Antibody (Center) Blocking Peptide - Background**

CEP63 is a protein with six coiled-coil domains. The protein is localized to the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells.

CEP63 Antibody (Center) Blocking Peptide - References

Sovio, U., et al. PLoS Genet. 5 (3), E1000409 (2009) Weedon, M.N., et al. Nat. Genet. 40(5):575-583(2008) Petretti, C., et al. EMBO Rep. 7(4):418-424(2006)