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CCDC11 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5650a

Specification

CCDC11 Antibody (N-term) Blocking peptide - Product Information

Primary Accession	Q96M91
Other Accession	NP_659457.2

CCDC11 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 220136

Other Names
Cilia- and flagella-associated protein 53 {ECO:0000312|HGNC:HGNC:26530}, Coiled-coil domain-containing protein 11 {ECO:0000312|HGNC:HGNC:26530}, CFAP53 (HGNC:26530)

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.

CCDC11 Antibody (N-term) Blocking peptide - Protein Information

Name CFAP53 (HGNC:26530)

Function
Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (PubMed:36191189). Regulates motility patterns of both 9+0 and 9+2 motile cilia through differential localization and recruitment of axonemal dynein components (By similarity). Required for centriolar satellite integrity and non-motile cilium assembly (PubMed:26538025). Required for motile cilium formation (PubMed:26538025). Through its role in the beating of primary cilia, involved in the establishment of organ laterality during embryogenesis (PubMed:26531781). Required for sperm flagellum biogenesis and is essential for male fertility (By similarity).

Cellular Location

Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9D439} Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriolar satellite. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton. Cell projection, cilium. Note=In tracheal cell cilia, localizes prominently to both centriolar satellites and axonemes (By similarity) Tightly associated with microtubules in tracheal cilia (By similarity) In embryonic node cells, localizes to the base of the node cilia at the centriolar satellites and, to a lesser extent, to the cilium axoneme (By similarity). Localizes to centriolar satellites through G1, S phase, G2 and mitosis (PubMed:26538025). Enriched on the spindle poles in mitosis (PubMed:26538025). Relocalizes from the centriolar satellite to the ciliary transition zone upon ciliogenesis (PubMed:26538025). In skin fibroblast cells, locates predominantly to the centriole with much lower levels associated with the actin cytoskeleton (PubMed:28621423) Localizes to the sperm flagellum and manchette (By similarity) {ECO:0000250|UniProtKB:Q9D439, ECO:0000269|PubMed:26538025, ECO:0000269|PubMed:28621423}

Tissue Location
Expressed in skin fibroblasts (at protein level) (PubMed:22577226, PubMed:28621423). Expressed in nasal respiratory epithelial cells (at protein level) (PubMed:25504577). Expressed in airway epithelial cells (PubMed:36191189)

CCDC11 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

CCDC11 Antibody (N-term) Blocking peptide - Images

CCDC11 Antibody (N-term) Blocking peptide - Background

The function of the CCDC11 protein remains unknown.

CCDC11 Antibody (N-term) Blocking peptide - References

Gerhard, D.S., et al. Genome Res. 14 (10B), 2121-2127 (2004) :