

DNAL1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11215a**Specification**

DNAL1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q4LDG9](#)**DNAL1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 83544**Other Names**

Dynein light chain 1, axonemal, DNAL1, C14orf168

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.

DNAL1 Antibody (N-term) Blocking peptide - Protein Information**Name** DNAL1 ([HGNC:23247](#))**Synonyms** C14orf168**Function**

Part of the multisubunit axonemal ATPase complexes that generate the force for cilia motility and govern beat frequency (By similarity). Component of the outer arm dynein (ODA). May be involved in a mechanosensory feedback mechanism controlling ODA activity based on external conformational cues by tethering the outer arm dynein heavy chain (DNAH5) to the microtubule within the axoneme (By similarity). Important for ciliary function in the airways and for the function of the cilia that produce the nodal flow essential for the determination of the left-right asymmetry (PubMed:21496787).

Cellular Location

Cytoplasm, cytoskeleton, cilium axoneme

Tissue Location

Expressed in tissues carrying motile cilia such as respiratory epithelia, ependyma and testis

DNAL1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

DNAL1 Antibody (N-term) Blocking peptide - Images**DNAL1 Antibody (N-term) Blocking peptide - Background**

DNAL1 is a component of outer dynein arms, which contain the molecular motors for ATP-dependent cilia movement (Horvath et al., 2005 [PubMed 15845866]).

DNAL1 Antibody (N-term) Blocking peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press : Horvath, J., et al. Am. J. Respir. Cell Mol. Biol. 33(1):41-47(2005)