

DNAL1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51167

Product Information

Application	WB, IP, IHC-P
Primary Accession	Q4LDG9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21533

Additional Information

Gene ID	83544
Other Names	Dynein light chain 1, axonemal, DNAL1, C14orf168
Dilution	WB~~1:1000 IP~~N/A IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

References

Horvath J.,et al.Am. J. Respir. Cell Mol. Biol. 33:41-47(2005).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Heilig R.,et al.Nature 421:601-607(2003).
Van Damme P.,et al.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012).

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