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DNAI1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DNAI1.
Catalog # AT1785a

Product Information

Application	WB
Primary Accession	Q9UI46
Other Accession	BC030583
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	2D10-2A5
Calculated MW	79283

Additional Information

Gene ID	27019
Other Names	Dynein intermediate chain 1, axonemal, Axonemal dynein intermediate chain 1, DNAI1
Target/Specificity	DNAI1 (AAH30583, 1 a.a. ~ 699 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DNAI1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

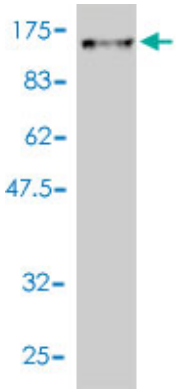
Background

The inner- and outer-arm dyneins, which bridge between the doublet microtubules in axonemes, are the force-generating proteins responsible for the sliding movement in axonemes. The intermediate and light chains, thought to form the base of the dynein arm, help mediate attachment and may also participate in regulating dynein activity. This gene encodes an intermediate chain dynein, belonging to the large family of motor proteins. Mutations in this gene result in abnormal ciliary ultrastructure and function associated with primary ciliary dyskinesia (PCD) and Kartagener syndrome.

References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Primary ciliary dyskinesia: improving the diagnostic approach. Leigh MW, et al. Curr Opin Pediatr, 2009 Jun. PMID 19300264.Mutations in dynein genes in patients affected by isolated non-syndromic asthenozoospermia. Zuccarello D, et al. Hum Reprod, 2008 Aug. PMID 18492703.DNAI1 mutations explain only 2% of primary ciliary dykinesia. Failly M, et al. Respiration, 2008. PMID 18434704.Mutations of DNAI1 in primary ciliary dyskinesia: evidence of founder effect in a common mutation. Zariwala MA, et al. Am J Respir Crit Care Med, 2006 Oct 15. PMID 16858015.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (102.63 KDa) .