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DNAI2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DNAI2.
Catalog # AT1786a

Specification

DNAI2 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	Q9GZS0
Other Accession	BC039582
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a kappa**
Calculated MW	**68821**

DNAI2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 64446

Other Names
Dynein intermediate chain 2, axonemal, Axonemal dynein intermediate chain 2, DNAI2

Target/Specificity
DNAI2 (AAH39582, 1 a.a. ~ 593 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
DNAI2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

DNAI2 Antibody (monoclonal) (M01) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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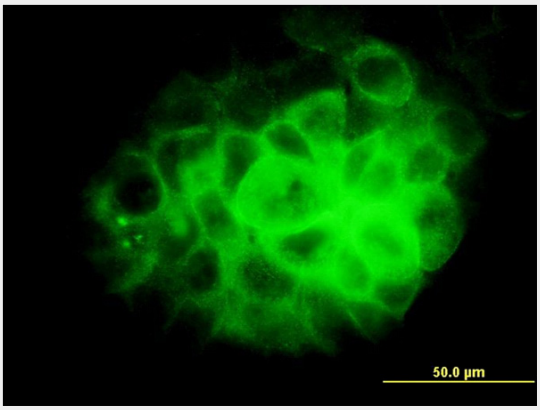
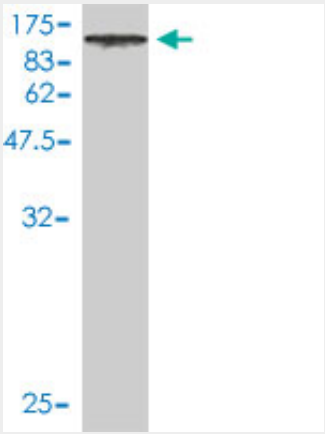
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

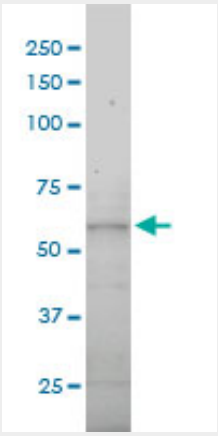
DNAI2 Antibody (monoclonal) (M01) - Images



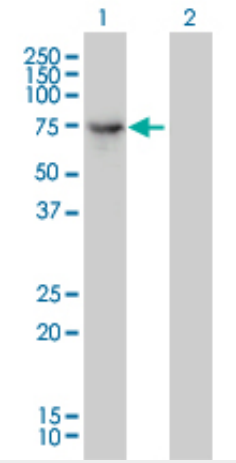
Immunofluorescence of monoclonal antibody to DNAI2 on A-431 cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (90.97 KDa) .

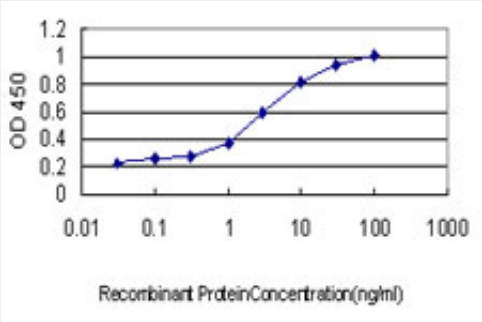


DNAI2 monoclonal antibody (M01), clone 1C8 Western Blot analysis of DNAI2 expression in A-431 ((Cat # AT1786a)



Western Blot analysis of DNAI2 expression in transfected 293T cell line by DNAI2 monoclonal antibody (M01), clone 1C8.

Lane 1: DNAI2 transfected lysate(67 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged DNAI2 is approximately 0.03ng/ml as a capture antibody.

DNAI2 Antibody (monoclonal) (M01) - Background

The protein encoded by this gene belongs to the dynein intermediate chain family, and is part of the dynein complex of respiratory cilia and sperm flagella. Mutations in this gene are associated with primary ciliary dyskinesia type 9. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

DNAI2 Antibody (monoclonal) (M01) - References

1.Pih1d3 is required for cytoplasmic preassembly of axonemal dynein in mouse sperm.Dong F, Shinohara K, Botilde Y, Nabeshima R, Asai Y, Fukumoto A, Hasegawa T, Matsuo M, Takeda H, Shiratori H, Nakamura T, Hamada HJ Cell Biol. 2014 Jan 20;204(2):203-13. doi: 10.1083/jcb.201304076. Epub 2014 Jan 13.2.Mutations in DNAH1, which Encodes an Inner Arm Heavy Chain Dynein, Lead to Male Infertility from Multiple Morphological Abnormalities of the Sperm Flagella.Ben Khelifa M, Coutton C, Zouari R, Karaouzene T, Rendu J, Bidart M, Yassine S, Pierre V, Delaroche J, Hennebicq S, Grunwald D, Escalier D, Pernet-Gallay K, Jouk PS, Thierry-Mieg N, Toure A, Arnoult C, Ray PFAm J Hum Genet. 2014 Jan 2;94(1):95-104. doi: 10.1016/j.ajhg.2013.11.017. Epub 2013 Dec 19.3.DYX1C1 is required for axonemal dynein assembly and ciliary motility.Tarkar A, Loges NT, Slagle CE, Francis R, Dougherty GW, Tamayo JV, Shook B, Cantino M, Schwartz D, Jahnke C, Olbrich H, Werner C, Raidt J, Pennekamp P, Abouhamed M, Hjeij R, Kohler G, Griese M, Li Y, Lemke K, Klena N, Liu X, Gabriel G, Tobita K, Jaspers M, Morgan LC, Shapiro AJ, Letteboer SJ, Mans

DA, Carson JL, Leigh MW, Wolf WE, Chen S, Lucas JS, Onoufriadis A, Plagnol V, Schmidts M, Boldt K, Roepman R, Zariwala MA, Lo CW, Mitchison HM, Knowles MR, Burdine RD, Loturco JJ, Omran HNat Genet. 2013 Jul 21. doi: 10.1038/ng.2707.4.Ktu/PF13 is required for cytoplasmic pre-assembly of axonemal dyneins.Omran H, Kobayashi D, Olbrich H, Tsukahara T, Loges NT, Hagiwara H, Zhang Q, Leblond G, O'Toole E, Hara C, Mizuno H, Kawano H, Fliegauf M, Yagi T, Koshida S, Miyawaki A, Zentgraf H, Seithe H, Reinhardt R, Watanabe Y, Kamiya R, Mitchell DR, Takeda H.Nature. 2008 Dec 4;456(7222):611-6.5.DNAI2 Mutations Cause Primary Ciliary Dyskinesia with Defects in the Outer Dynein Arm.Loges NT, Olbrich H, Fenske L, Mussaffi H, Horvath J, Fliegauf M, Kuhl H, Baktai G, Peterffy E, Chodhari R, Chung EM, Rutman A, O'Callaghan C, Blau H, Tiszlavicz L, Voelkel K, Witt M, Zietkiewicz E, Neesen J, Reinhardt R, Mitchison HM, Omran H.Am J Hum Genet. 2008 Nov;83(5):547-58. Epub 2008 Oct 23.