Human DNAL1 antibody

Catalog Number: ATGA0287

PRODUCT INFORMATION

Catalog number
ATGA0287

Clone No.
AT29E4

Product type
Monoclonal Antibody

UnitProt No.
Q4LDG9

NCBI Accession No.
NP_113615

Alternative Names
Dynein light chain 1 axonemal, Dynein light chain 1, axonemal, C14orf168, CILD16

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human DNAL1 (1-190aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA,WB,ICC/IF,FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

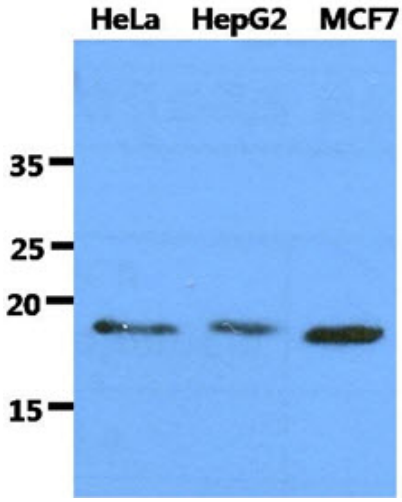
DNAL1, also known as dynein light chain 1 axonemal, is component of the outer dynein arms complex. This complex acts as the molecular motor that provides the force to move cilia in an ATP-dependent manner. DNAL1 is expressed in tissues with motile cilia or flagella and may be involved in the movement of sperm flagella. Homozygous mutations in the DNAL1 gene are associated with primary ciliary dyskinesia 16 (CILD16) which is a disorder characterized by abnormalities of motile cilia.

General References

Mazor. M., et al. (2011) Am J Hum Genet 88: 599-607.
Horvath. J., et al. (2005) Am J Respir Cell Mol Biol 33: 41-47.

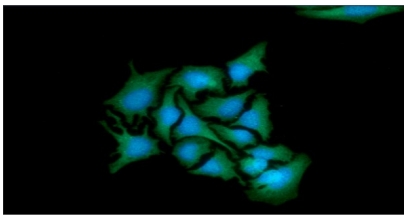
DATA

Western blot analysis (WB)

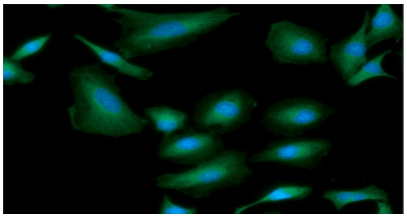


The cell lysates of HeLa, HepG2 and MCF7 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human DNAL1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of DNAL1 in HeLa cells. The cell was stained with ATGA0287 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of DNAL1 in A549 cells. The cell was stained with ATGA0287 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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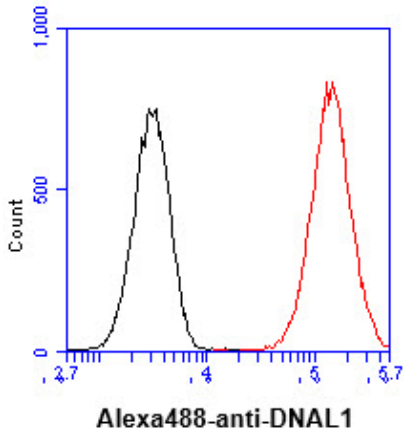
Flow cytometry (FACS)



Flow cytometry analysis of DNAL1 in HeLa cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).