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Datasheet for 600-401-AW5

DNAL1 Antibody

Overview

Description:	Anti-DNAL1 (RABBIT) Antibody - 600-401-AW5
Item No.:	600-401-AW5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	DNAL1 was identified as a potential candidate gene for primary ciliary dyskinesia (PCD), a genetically heterologous disorder characterized by chronic infections of the upper and lower airways that often leads to permanent lung damage, randomization of left/right body symmetry, and reduced fertility. DNAL1 is reported to be expressed solely in tissues carrying motile cilia for flagella and interacts with DNAH5, a protein that when mutated has been shown to result in PCD. It has been suggested that DNAL1 serves a regulatory function for DNAH5 activity in outer dynein arms of sperm flagella, respiratory cilia, and ependymal cilia. DNAL1 has also been recently identified as an HIV dependency factor (HDF), suggesting that DNAL1 may be an important drug target in HIV treatment. At least two isoforms of DNAL1 are known to exist.
Synonyms:	DNAL1 Antibody, CILD16, C14orf168, Dynein light chain 1, axonemal
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DNAL1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DNAL1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the C-terminus of human DNAL1.
Purity/Specificity:	Anti-DNAL1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with DNAL1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q4LDG9 • GeneID - 83544 • NCBI - NP_113615

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DNAL1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 22 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	User Optimized
WB:	1-2 µg/mL

Formulation

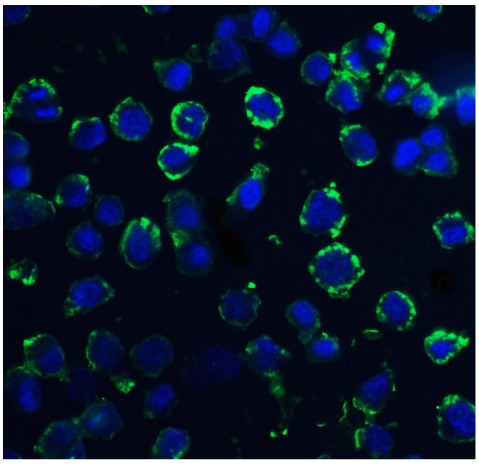
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

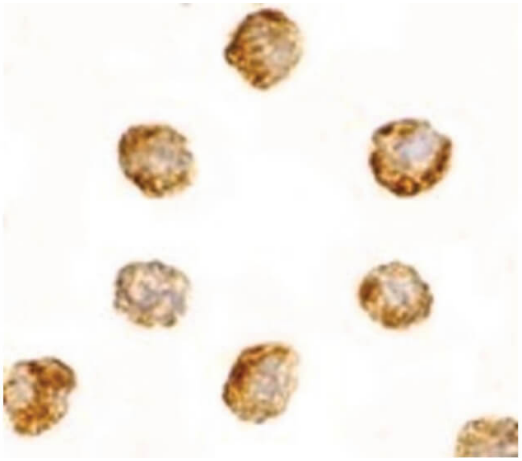
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

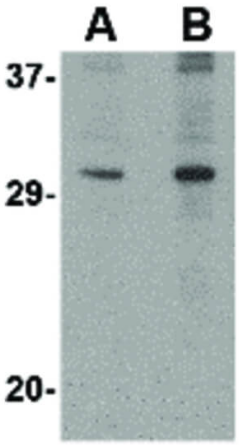
Images



Immunofluorescence Microscopy
Immunofluorescence of DNAL1 in 3T3 cells with DNAL1 antibody at 20 µg/mL. Green: DNAL1 Antibody.
Blue: DAPI staining.



Immunocytochemistry
Immunocytochemistry of DNAL1 antibody. Tissue: 3T3 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DNAL1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DNAL1 is nuclear and occasionally cytoplasmic. Staining: DNAL1 as precipitated brown signal with hematoxylin purple counterstain.



Western Blot
Western Blot of DNAL1 antibody. Lane A: 3T3 cell lysate at 1 µg/mL. Lane B: 3T3 cell lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 21.5 kDa, ~30 kDa for DNAL1.

Disclaimer

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