Rabbit anti-Human, Mouse DNAL1 Polyclonal Antibody | anti-DNAL1 antibody

DNAL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324685	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

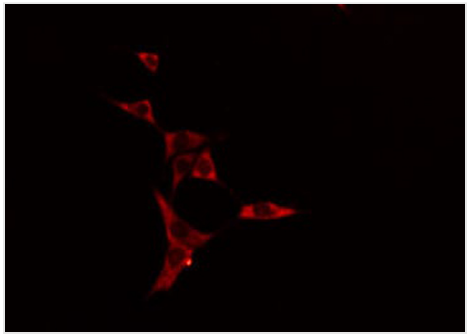
PRODUCT SYNONYMS

DNAL1; Polyclonal Antibody; DNAL1 Antibody; axonemal; Axonemal dynein light chain 1; Axonemal dynein light chain; C14orf168; Chromosome 14 open reading frame 168; CILD16; DNAL 1; dnal1; DNAL1_HUMAN; Dynein axonemal light chain 1; Dynein light chain 1; Dynein light chain 1 axonemal; MGC12435; anti-DNAL1 antibody

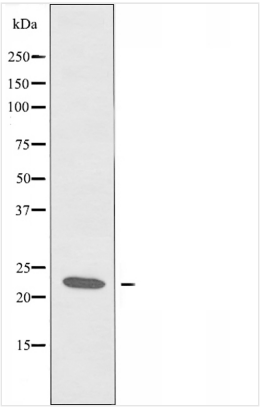
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	DNAL1 antibody detects endogenous levels of total DNAL1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	151
Applicable Applications for anti-DNAL1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoskeleton
Tissue Specificity	Expressed in tissues carrying motile cilia such as respiratory epithelia, ependyma and testis.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus**
Similarity	Pig (100%), Zebrafish (82%), Bovine (100%), Horse (91%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA324685 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells using DNAL1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DNAL1 antibody	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). Subunit Structure: Interacts with DNAH5, a outer arm dynein heavy chain (PubMed:15845866, PubMed:21496787). Interacts with tubulin located within the A-tubule of the outer doublets in a ATP-independent manner (PubMed:21496787). Similarity: Belongs to the dynein light chain LC1-type family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	318984125
NCBI GeneID	83544
NCBI Accession #	NP_001188295.1
NCBI GenBank Nucleotide #	NM_001201366.1
UniProt Accession #	Q4LDG9; Q5JPB7; Q9BS43; B2RD38
Molecular Weight	Observed: 22 kD Predicted: 22 kDa
NCBI Official Full Name	dynein light chain 1, axonemal isoform 2
NCBI Official Synonym Full Names	dynein axonemal light chain 1
NCBI Official Symbol	DNAL1
NCBI Official Synonym Symbols	LC1; CILD16; C14orf168
NCBI Protein Information	dynein light chain 1, axonemal
UniProt Protein Name	Dynein light chain 1, axonemal
UniProt Gene Name	**DNAL1**
UniProt Synonym Gene Names	LC1By similarityManual assertion inferred from sequence similarity toiUniProtKB:Q9XHH2Â (DNAL1_CHLRE)

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/dnal1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324685