

Rabbit DYNC1H1 Polyclonal Antibody | anti-DYNC1H1 antibody

DYNC1H1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327965	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

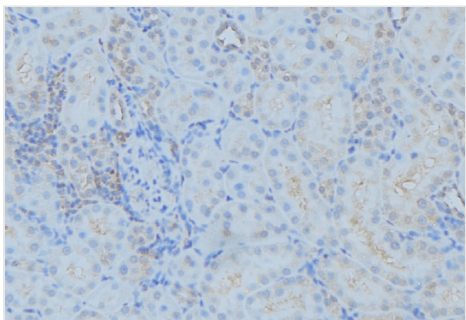
PRODUCT SYNONYMS

DYNC1H1; Polyclonal Antibody; DYNC1H1 Antibody; anti-DYNC1H1 antibody

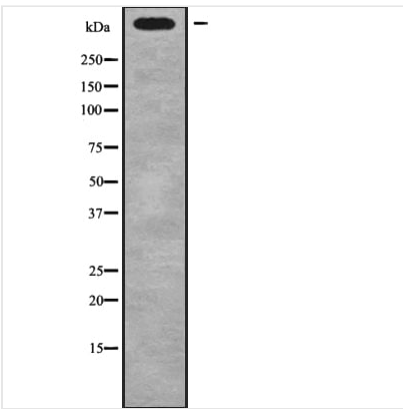
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	DYNC1H1 antibody detects endogenous levels of total DYNC1H1
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	4646
Applicable Applications for anti-DYNC1H1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DYNC1H1
Subcellular Location	Cytoplasmic, Golgi Apparatus, Microtubule.
Predicted Cross Reactivity	Pig, Bovine, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

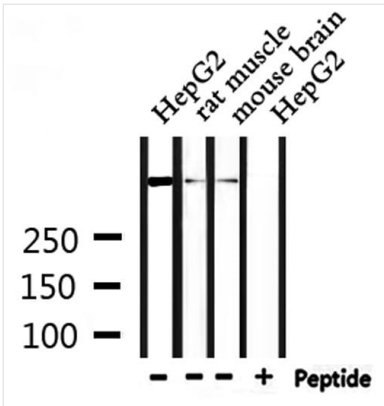
IMAGES



IHC (Immunohistochemistry)
AAA327965 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of DYNC1H1 using NIH-3T3 whole cell lysates



WB (Western Blot)
Western blot analysis of extracts from HepG2 and rat muscle and mouse brain, using DYNC1H1 Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DYNC1H1 antibody

Function: Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. Dynein has ATPase activity; the force-producing power stroke is thought to occur on release of ADP. Plays a role in mitotic spindle assembly and metaphase plate congression (PubMed:27462074).

Subunit Structure: Homodimer. The cytoplasmic dynein 1 complex consists of two catalytic heavy chains (HCs) and a number of non-catalytic subunits presented by intermediate chains (ICs), light intermediate chains (LICs) and light chains (LCs); the composition seems to vary in respect to the IC, LIC and LC composition. The heavy chain homodimer serves as a scaffold for the probable homodimeric assembly of the respective non-catalytic subunits. The ICs and LICs bind directly to the HC dimer and dynein LCs assemble on the IC dimer. Interacts with DYNC1LI1; DYNC1LI1 and DYNC1LI2 bind mutually exclusive to DYNC1H1. Interacts with DYNC1LI2; DYNC1LI1 and DYNC1LI2 bind mutually exclusive to DYNC1H1. Interacts with DYNC1I2 (By similarity). Interacts with BICD2 (PubMed:25512093).

Similarity: Dynein heavy chains probably consist of an N-terminal stem (which binds cargo and interacts with other dynein components), and the head or motor domain. The motor contains six tandemly-linked AAA domains in the head, which form a ring. A stalk-like structure (formed by two of the coiled coil domains) protrudes between AAA 4 and AAA 5 and terminates in a microtubule-binding site. A seventh domain may also contribute to this ring; it is not clear whether the N-terminus or the C-terminus forms this extra domain. There are four well-conserved and two non-conserved ATPase sites, one per AAA domain. Probably only one of these (within AAA 1) actually hydrolyzes ATP, the others may serve a regulatory function. Belongs to the dynein heavy chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33350932
NCBI GeneID	1778

NCBI Accession #	NP_001367.2
NCBI GenBank Nucleotide #	NM_001376.4
UniProt Accession #	Q14204 ; Q6DKQ7 ; Q8WU28 ; Q92814 ; Q9Y4G5 ; B0I1R0
Molecular Weight	Observed: 532 kDa Predicted: 533 kDa
NCBI Official Full Name	cytoplasmic dynein 1 heavy chain 1
NCBI Official Synonym Full Names	dynein cytoplasmic 1 heavy chain 1
NCBI Official Symbol	DYNC1H1
NCBI Official Synonym Symbols	p22; DHC1; DNCL; DYHC; HL-3; CMT2O; DHC1a; DNCH1; DNECL; Dnchc1; SMALED1
NCBI Protein Information	cytoplasmic dynein 1 heavy chain 1
UniProt Protein Name	Cytoplasmic dynein 1 heavy chain 1
UniProt Gene Name	DYNC1H1
UniProt Synonym Gene Names	DHC1; DNCH1; DNCL; DNECL; DYHC; KIAA0325

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://stage.aaabiotech.com/polyclonal/dync1h1-antibody-immunohistochemistry-western-blot-elisa/327965>