

DYNC1H1 Polyclonal Antibody

Catalog number: 12345-1-AP

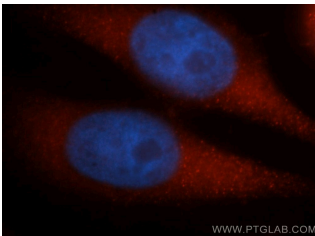
Size: 30 µg/150 µl

Source: Rabbit

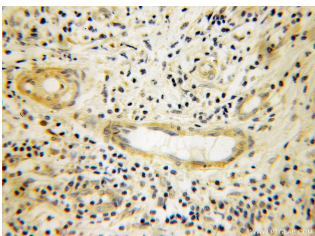
Isotype: IgG

Synonyms:

DYNC1H1; DHC1, DHC1a,
DKFZp686P2245, DNCH1,
Dnchc1, DNCL, DNECL, DYHC,
DYNC1H1, Dynein heavy chain,
cytosolic, HL 3, KIAA0325, p22



Immunofluorescent analysis of MCF-7 cells, using DYNC1H1 antibody 12345-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human breast cancer using 12345-1-AP(KIAA0325 antibody) at dilution of 1:100 (under 10x lens)



HeLa cells were subjected to SDS PAGE followed by western blot with 12345-1-AP(KIAA0325 antibody) at dilution of 1:500

Background

Dyneins are a group of microtubule-activated ATPases that serve to convert chemical energy into mechanical energy. It can be divided into 2 large subgroups, namely, the axonemal and cytoplasmic dyneins. The conventional cytoplasmic dynein are comprised of 2 heavy chain polypeptides and a number of intermediate and light chains. DYNC1H1 is a cytoplasmic dynein and belongs to the dynein heavy chain family. It acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. DYNC1H1 has been implicated in the degeneration of dopaminergic neuron axons and motor neurons in PD patients..

Applications

Tested applications:	ELISA, WB, IHC, IF
Cited applications:	IF, IHC, WB
Species specificity:	Human, Rat, Zebrafish, Mouse; other species not tested.
Cited species:	Human, zebrafish
Calculated DYNC1H1 MW:	4646aa,532 kDa
Observed DYNC1H1 MW:	532kd
Positive WB detected in	HeLa cells, human brain tissue, mouse brain tissue
Positive IHC detected in	Human breast cancer tissue, human testis tissue
Positive IF detected in	MCF-7 cells
Recommended dilution:	WB: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2999
GenBank accession number:	BC021297
Gene ID (NCBI):	1778
Full name:	Dynein, cytoplasmic 1, heavy chain 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.