

For Research Use Only

DYNC2H1 Polyclonal antibody

Catalog Number: 29758-1-AP



Basic Information

Catalog Number: 29758-1-AP	GenBank Accession Number: NM_001377	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 550 µg/ml by Nanodrop;	GeneID (NCBI): 79659	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:200-1:800
Source: Rabbit	Full Name: dynein, cytoplasmic 2, heavy chain 1	
Isotype: IgG	Calculated MW: 493 kDa	
Immunogen Catalog Number: AG30707	Observed MW: 493 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

Human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse testis tissue,

IHC : mouse kidney tissue,

IF : hTERT-RPE1 cells,

Background Information

DYNC2H1 (Cytoplasmic dynein 2 heavy chain 1) is involved in ciliary intraflagellar transport (IFT). DYNC2H1 drives retrograde transport of the IFT-A protein complex that regulates tip-to-base transport in cilia, involved in the generation and maintenance of cilia. DYNC2H1 variants or retina-predominant variants cause nonsyndromic retinal degeneration (PMID:32753734). DYNC2H1 mutations also cause asphyxiating thoracic dystrophy and short rib-polydactyly syndrome (PMID: 19442771). DYNC2H1 was localized to the basal bodies by immunofluorescence staining (PMID: 21552265, PMID: 26077881, PMID: 30320547).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

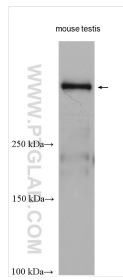
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

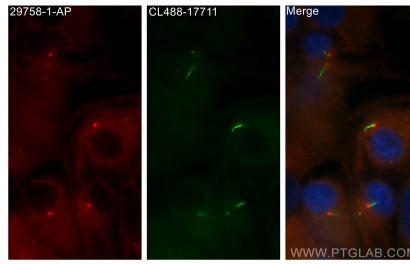
E: proteintech@ptglab.com
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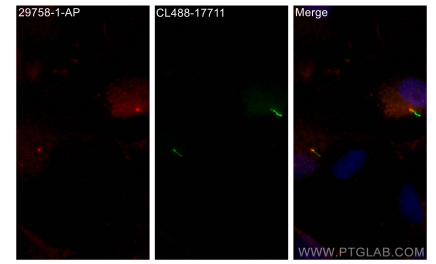
Selected Validation Data



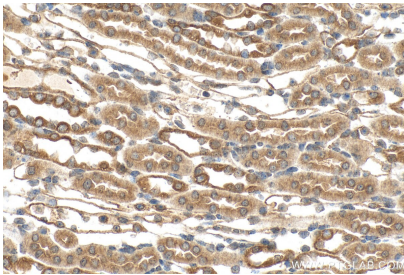
mouse testis tissue were subjected to SDS PAGE followed by western blot with 29758-1-AP (DYNC2H1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



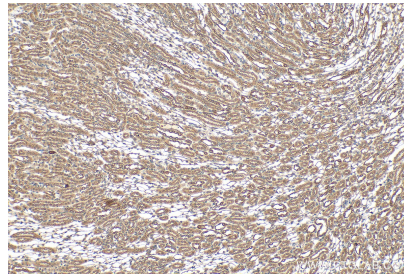
Immunofluorescent analysis of (-20°C Methanol) fixed hTERT-RPE1 cells using DYNC2H1 antibody (29758-1-AP) at dilution of 1:400 and CoraLite® 594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite® Plus 488 ARL13B antibody (CL488-17711, green).



Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using DYNC2H1 antibody (29758-1-AP) at dilution of 1:400 and CoraLite® 594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite® Plus 488 ARL13B antibody (CL488-17711, green).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 29758-1-AP (DYNC2H1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 29758-1-AP (DYNC2H1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).