

For Research Use Only

# KLC1 Polyclonal antibody

Catalog Number:19028-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

19028-1-AP

### Size:

150ul , Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13570

### GenBank Accession Number:

BC008881

### GeneID (NCBI):

3831

### UNIPROT ID:

Q07866

### Full Name:

kinesin light chain 1

### Calculated MW:

65 kDa

### Observed MW:

61-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:12000

IHC 1:100-1:600

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human

**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** : SH-SY5Y cells, COLO 320 cells, HepG2 cells, mouse brain tissue, SK-N-SH cells

**IHC** : human brain tissue, human bowen disease

**IF/ICC** : Hela cells, HepG2 cells

## Background Information

Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. Kinesin is tetrameric proteins containing two heavy (alpha) chains and two light (beta) chains. The alpha chains provide the tubulin binding site and the ATPase domains, whereas the beta chains are responsible for the specific attachment of the organelle to be moved by the kinesin tetramer (PubMed:21385839).

## Notable Publications

Author	Pubmed ID	Journal	Application
Amélie Robert	29944446	FASEB J	WB
Simo Li	38830696	Dev Neurobiol	WB,IF

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1%BSA**

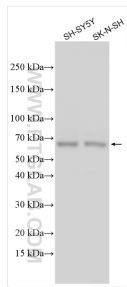
For technical support and original validation data for this product please contact:

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

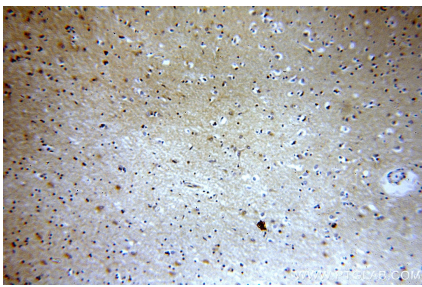
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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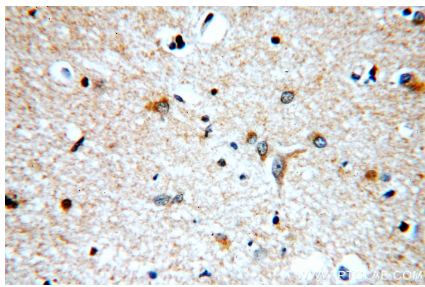
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19028-1-AP (KLC1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



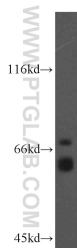
Immunohistochemical analysis of paraffin-embedded human brain using 19028-1-AP (KLC1 antibody) at dilution of 1:100 (under 10x lens).



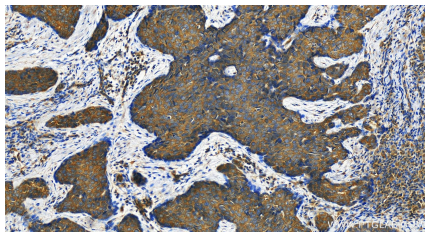
Immunohistochemical analysis of paraffin-embedded human brain using 19028-1-AP (KLC1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HeLa cells, using KLC1 antibody 19028-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 19028-1-AP (KLC1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human Bowen disease slide using 19028-1-AP (KLC1 antibody) at dilution of 1:300 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).