

# KLC1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8637c

## Product Information

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<b>Application</b>	IHC-P, FC, WB, E
<b>Primary Accession</b>	<a href="#">Q07866</a>
<b>Other Accession</b>	<a href="#">P37285</a>
<b>Reactivity</b>	Human, Rat
<b>Predicted</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	65310
<b>Antigen Region</b>	389-415

## Additional Information

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<b>Gene ID</b>	3831
<b>Other Names</b>	Kinesin light chain 1, KLC 1, KLC1, KLC, KNS2
<b>Target/Specificity</b>	This KLC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 389-415 amino acids from the Central region of human KLC1.
<b>Dilution</b>	IHC-P~~1:100 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	KLC1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	KLC1
<b>Synonyms</b>	KLC, KNS2
<b>Function</b>	Kinesin is a microtubule-associated force-producing protein that may play a

role in organelle transport (PubMed:[21385839](#)). The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity (By similarity).

#### Cellular Location

Cell projection, growth cone {ECO:0000250|UniProtKB:P37285}. Cytoplasmic vesicle. Cytoplasm, cytoskeleton

#### Tissue Location

Found in a variety of tissues. Mostly abundant in brain and spine.

## Background

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Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity.

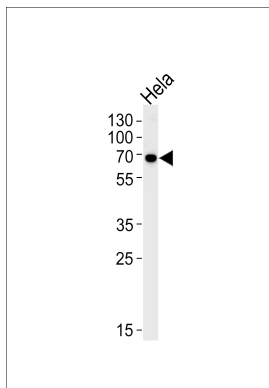
## References

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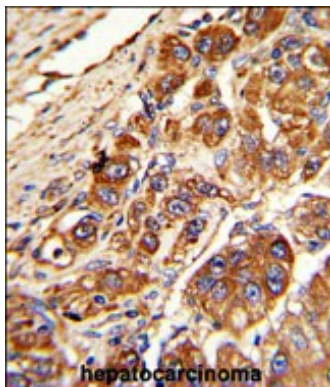
Chernajovsky,Y., et.al., DNA Cell Biol. 15 (11), 965-974 (1996) Gyoeva,F.K., et.al., J. Cell. Sci. 113 (PT 11), 2047-2054 (2000)

## Images

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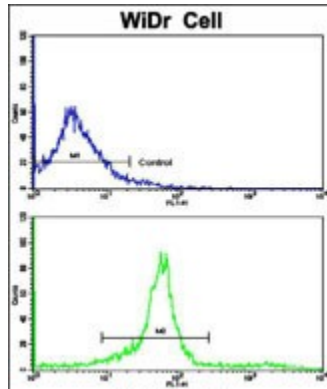
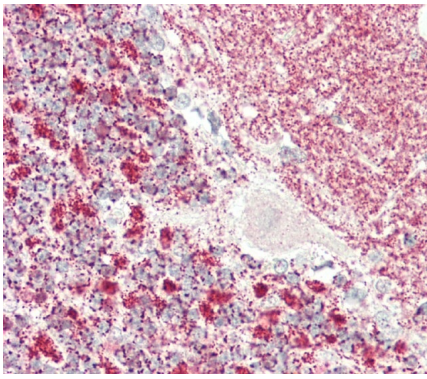


KLC1 Antibody (Center) (Cat. #AP8637c) western blot analysis in HeLa cell line lysates (35ug/lane).This demonstrates the KLC1 antibody detected the KLC1 protein (arrow).



Formalin-fixed and paraffin-embedded human hepatocarcinoma with KLC1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Formalin-fixed and paraffin-embedded H.brain, H.cerebellum tissue reacted with KLC1 Antibody (Center) (Cat#AP8637c).



Flow cytometric analysis of widr cells using KLC1 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Citations

- [Alterations in axonal transport motor proteins in sporadic and experimental Parkinson's disease.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.