

#### **KLC1** Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8637c

#### **Specification**

## **KLC1 Antibody (Center) - Product Information**

Application WB, FC, IHC-P,E

**Primary Accession** 007866 Other Accession P37285 Reactivity Human Predicted Rat Host Rabbit Clonality **Polyclonal** Isotype Rabbit IgG Antigen Region 389-415

#### **KLC1 Antibody (Center) - Additional Information**

#### **Gene ID 3831**

#### **Other Names**

Kinesin light chain 1, KLC 1, KLC1, KLC, KNS2

#### Target/Specificity

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.

## **Dilution**

WB~~1:1000 FC~~1:10~50 IHC-P~~1:100

E~~Use at an assay dependent concentration.

#### **Format**

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.

#### **Storage**

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.

#### **Precautions**

KLC1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **KLC1 Antibody (Center) - Protein Information**

### Name KLC1



## Synonyms KLC, KNS2

**Function** 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**

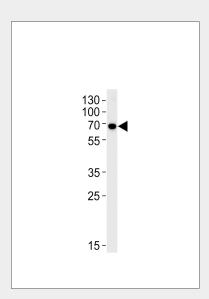
Found in a variety of tissues. Mostly abundant in brain and spine.

#### **KLC1 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

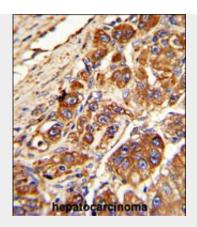
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## **KLC1 Antibody (Center) - Images**

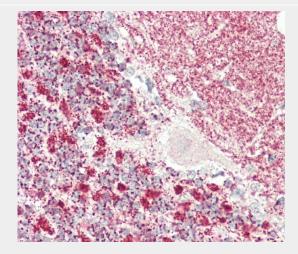


KLC1 Antibody (Center) (Cat.# AP8637c) western blot analysis in Hela cell line lysates (35ug/lane). This demonstrates the KLC1 antibody detected the KLC1 protein (arrow).

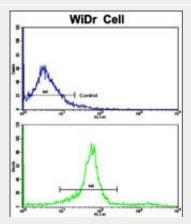




Formalin-fixed and paraffin-embedded human hepatocarcinoma with KLC1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



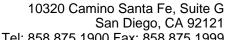
Formalin-fixed and paraffin-embedded H.brain, H.cerebellum tissue reacted with KLC1 Antibody (Center) (Cat#AP8637c).



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.

## KLC1 Antibody (Center) - Background

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





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of its ATPase activity.

# **KLC1 Antibody (Center) - References**

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)

## **KLC1** Antibody (Center) - Citations

• Alterations in axonal transport motor proteins in sporadic and experimental Parkinson\'s disease.