**Basic Information**

- **Catalog Number:** 20790-1-AP
- **Size:** 60 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG14492
- **GenBank Accession Number:** BC000712
- **GeneID (NCBI):** 3833
- **Full Name:** Kinesin family member C1
- **Calculated MW:** 673aa, 74 kDa
- **Observed MW:** 55-70 kDa

**Recommended Dilutions:**
- WB: 1:500-1:1000
- IHC: 1:20-1:200
- IF: 1:10-1:100

**Applications**

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human

**Positive Controls:**
- WB: rat testis tissue, Hela cells, mouse testis tissue, NIH/3T3 cells
- IHC: human testis tissue
- IF: Hela cells, HepG2 cells

**Background Information**

KIFC1 is a molecular motor protein belonging to the kinesin-14 family that has motor domains at the C-terminus. KIFC1 is widely distributed, with highest expression in testis and participating in acrosome biogenesis and vesicle transport. It is also abundant in ovary, spleen, and liver. KIFC1 proteins are generally localized in the perinuclear region, and have been found to be involved in chromosome alignment, congression and intracellular DNA transport. This antibody was raised against the C-terminal region of human KIFC1 protein, and recognizes 55-70 kDa of endogenous KIFC1 protein in multiple tissue lysates. (1282598, 15236353, 23543461)

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erlei Zhi</td>
<td>27850105</td>
<td>Genes (Basel)</td>
<td>WB, IF</td>
</tr>
<tr>
<td>Si-Hyung Lee</td>
<td>26042452</td>
<td>FASEB J</td>
<td>IF</td>
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<tr>
<td>Mijung Kwon</td>
<td>26326048</td>
<td>Dev. Cell</td>
<td>WB</td>
</tr>
</tbody>
</table>

**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:** Not necessary for -20°C storage

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

- **T:** (888) 4PTGLAB (toll free in USA), or (312) 455-8498 (outside USA)
- **E:** proteintech@ptglab.com
- **W:** ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Immunofluorescent analysis of Hela cells, using KIFC1 antibody 20790-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).

Immunohistochemistry of paraffin-embedded rat testis tissue were subjected to SDS-PAGE followed by western blot with 20790-1-AP KIFC1 Antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human testis tissue slide using 20790-1-AP (KIFC1 Antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemistry of paraffin-embedded human testis tissue slide using 20790-1-AP (KIFC1 Antibody) at dilution of 1:50 (under 40x lens).