KPTN Polyclonal antibody

Catalog Number: 16094-1-AP

Basic Information

Catalog Number: 16094-1-AP
Size: 150μl, Concentration: 500 μg/ml by Nanodrop and 327 μg/ml by Bradford method using BSA as the standard
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG8785
GenBank Accession Number: BC009249
GeneID (NCBI): 11133
Full Name: kaptin (actin binding protein)
Calculated MW: 436 aa, 48 kDa
Observed MW: 48 kDa
Purification Method: Antigen affinity purification
Recommended Dilutions:
- WB: 1:1000-1:4000
- IHC: 1:20-1:200
- IF: 1:20-1:200

Applications

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

Positive Controls:
- WB: HeLa cells, NIH/3T3 cells, human cerebellum tissue, mouse skeletal muscle tissue
- IHC: human kidney tissue, human heart tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human spleen tissue
- IF: HeLa cells,

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

Background Information

Kaptin, also named as KPTN and Actin-associated protein 2E4, originally isolated from human blood platelets and likely to be involved in the actin rearrangements occurring during activation. It plays a unique role in the actin rearrangements that accompany platelet activation and stereocilia formation. Kaptin is necessary for normal neuromorphogenesis. It may play a role in producing the sensory apparatus in hair cells.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cecilia Cattelani</td>
<td>34685691</td>
<td>Cells</td>
<td>WB</td>
</tr>
<tr>
<td>Kuang Shen</td>
<td>29590090</td>
<td>Nature</td>
<td>WB</td>
</tr>
<tr>
<td>Jose M Orozco</td>
<td>32719541</td>
<td>Nat Metab</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 is unnecessary for -20°C storage

*** 20μl sizes contain 0.1% BSA

For Research Use Only

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

For technical support and original validation data for this product please contact:
T: (888) 4PTGLAB (1-888-478-4522) | E: proteintech@ptglab.com
(inside USA), or 1(312) 455-8498 (outside USA)  | W: ptglab.com
Various lysates were subjected to SDS PAGE followed by western blot with 16094-1-AP (KPTN antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human kidney using 16094-1-AP (KPTN antibody) at dilution of 1:100 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human kidney using 16094-1-AP (KPTN antibody) at dilution of 1:100 (under 40x lens).

Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 16094-1-AP (KPTN antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).