Anti-TCP1 epsilon/CCT5 antibody ab82778

Overview

Product name: Anti-TCP1 epsilon/CCT5 antibody
Description: Rabbit polyclonal to TCP1 epsilon/CCT5
Host species: Rabbit
Tested applications: Suitable for: WB, ELISA, ICC/IF
Species reactivity: Reacts with: Human
Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog
Immunogen: Synthetic peptide corresponding to a region within C terminal amino acids 492-541 (DCLHKGTDNM KQQHVIETLI GKKQQISLAT QMVRMILKID DIRKPGESEE) of human TCP1 epsilon (NP_036205).
Positive control: 293T cell lysate.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Preservative: 0.09% Sodium azide
Constituents: 2% Sucrose, PBS
Purity: Immunogen affinity purified
Purification notes: Purified by peptide affinity chromatography method.
Clonality: Polyclonal
Isotype: IgG

Applications

The Abpromise guarantee: Our Abpromise guarantee covers the use of ab82778 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Molecular chaperone; assists the folding of proteins upon ATP hydrolysis. As part of the BBS/CCT complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. Known to play a role, in vitro, in the folding of actin and tubulin.

**Involvement in disease**
Neuropathy, hereditary sensory, with spastic paraplegia, autosomal recessive

**Sequence similarities**
Belongs to the TCP-1 chaperonin family.

**Cellular localization**
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.

### Application

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 60 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.</td>
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<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent dilution.</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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</tbody>
</table>

### Target

**Function**
Molecular chaperone; assists the folding of proteins upon ATP hydrolysis. As part of the BBS/CCT complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. Known to play a role, in vitro, in the folding of actin and tubulin.

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### Images

Anti-TCP1 epsilon/CCT5 antibody (ab82778) at 1 µg/ml (5% skim milk / PBS buffer) + 293T cell lysate at 10 µg

**Secondary**
HRP conjugated anti-Rabbit IgG at 1/50000 dilution

**Predicted band size**: 60 kDa
**Observed band size**: 60 kDa
**Additional bands at**: 20 kDa, 24 kDa. We are unsure as to the identity of these extra bands.

Gel concentration: 12%
ICC/IF image of ab82778 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab82778, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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