Product datasheet

Anti-TCP1 delta antibody ab49151

1 References 5 Images

Overview

Product name Anti-TCP1 delta antibody
Description Rabbit polyclonal to TCP1 delta
Host species Rabbit
Tested applications Suitable for: WB, ELISA, ICC/IF, IHC-P
Species reactivity Reacts with: Human
Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Saccharomyces cerevisiae, Drosophila melanogaster, Zebrafish
Immunogen Synthetic peptide: AGLNPISTVT ELRNRHAQGE KTAGINVRKG GISNILEELV VQPLLVSVSA, corresponding to a region within C terminal amino acids 469-518 of Human TCP1 delta
Positive control HepG2 cell lysates

Properties

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

Applications

Our Abpromise guarantee covers the use of ab49151 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>Use a concentration of 1.25 µg/ml. Detects a band of approximately 56 kDa (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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The chaperonin containing TCP1 complex (CCT), also called the TCP1 ring complex, consists of 2 back to back rings, each containing 8 unique but homologous subunits (e.g. CCT3). CCT assists the folding of newly translated polypeptide substrates through multiple rounds of ATP driven release and rebinding of partially folded intermediate forms. Substrates of CCT include the cytoskeletal proteins actin and tubulin, as well as alpha transducin. TCP1 delta belongs to the TCP1 chaperonin family, and is a molecular chaperone; assisting the folding of proteins upon ATP hydrolysis. It is known to play a role, in vitro, in the folding of actin and tubulin.

**Cellular localization**

Cytoplasmic > Cytoskeleton

**Images**

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human bronchial epithelial tissue labelling TCP1 delta with ab49151 at 1/100. A Cy3-conjugated donkey anti-rabbit IgG (1/200) was used as the secondary antibody. Positive staining shown in the cytoplasm. Magnification: 20X. Exposure time: 0.5 - 2.0 seconds. Left - DAPI. Middle - TCP1. Right - Merge.

Western blot analysis of HepG2 cell lysate labeling TCP1 delta with ab49151 at 1µg/ml.
Immunocytochemistry/immunofluorescence analysis of Rat hippocampal neurons - 14DIV labeling TCP1 delta with ab49151 at 1/200. A Cy3-conjugated anti rabbit IgG (1/500) was used as the secondary antibody.

Western blot analysis of HepG2 cell lysate labeling TCP1 delta with ab49151 at 1:1000. A Cy3-conjugated anti-rabbit IgG (1:10000) was used as the secondary antibody.

All lanes: Anti-TCP1 delta antibody (ab49151) at 1.25 µg/ml (in 5% skim milk / PBS buffer)

Lane 1: molecular marker
Lane 2: HepG2 cell lysate at 10 µg

Secondary
All lanes: HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 60 kDa
Observed band size: 56 kDa
why is the actual band size different from the predicted?

Gel concentration: 12%

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