Product datasheet

Anti-TRPC6 antibody ab62461

Overview

Product name: Anti-TRPC6 antibody
Description: Rabbit polyclonal to TRPC6
Host species: Rabbit
Specificity: This antibody does potentially cross-react with TRPC3.
Tested applications: Suitable for: IHC-P, ICC/IF, WB
Species reactivity: Reacts with: Mouse, Human
Immunogen: Synthetic peptide corresponding to Human TRPC6 (N terminal).
Database link: Q9Y210
(Peptide available as ab106953)
Positive control: WB: K562 cell lysate. IHC-P: Mouse lung tissue. ICC/IF: K562 cells.

Properties

Form: Liquid
Storage buffer: Preservative: 0.02% Sodium azide
Constituent: PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab62461 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>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 10 µg/ml.</td>
</tr>
</tbody>
</table>
Function

Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C. Seems not to be activated by intracellular calcium store depletion.

Tissue specificity

Expressed primarily in placenta, lung, spleen, ovary and small intestine. Expressed in podocytes and is a component of the glomerular slit diaphragm.

Involvement in disease

Defects in TRPC6 are the cause of focal segmental glomerulosclerosis type 2 (FSGS2) [MIM:603965]. A renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or kidney transplantation.

Sequence similarities

Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC6 sub-subfamily. Contains 4 ANK repeats.

Cellular localization

Membrane.

Images

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<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 106 kDa (predicted molecular weight: 106 kDa).</td>
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**Target**

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<th>Lane 1</th>
<th>Anti-TRPC6 antibody (ab62461) at 0.5 µg/ml</th>
</tr>
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<tbody>
<tr>
<td>Lane 2</td>
<td>Anti-TRPC6 antibody (ab62461) at 1 µg/ml</td>
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</table>

**All lanes**

K562 cell lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size**

106 kDa

**Observed band size**

106 kDa
K562 (human chronic myelogenous leukemia cell line from bone marrow) cells stained for TRPC6 (red) using ab62461 (5 µg/ml) in ICC/IF.

Paraffin embedded mouse lung tissue stained for TRPC6 with ab62461 (10 µg/ml) in immunohistochemical analysis.

K562 (human chronic myelogenous leukemia cell line from bone marrow) cells stained for TRPC6 using ab62461 (2 µg/ml) in ICC.

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