Product datasheet

Anti-TRPC1 antibody ab75322

Overview

Product name: Anti-TRPC1 antibody
Description: Rabbit polyclonal to TRPC1
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-Fr
Species reactivity:
- Reacts with: Mouse, Human
- Predicted to work with: Rat, Cow, a wide range of other species
Immunogen: Synthetic peptide derived from the C-terminal domain of TRPC1

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Constituent: Whole serum
Purity: Whole antiserum
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab75322 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>IHC-Fr</td>
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<td>Use at an assay dependent concentration.</td>
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Target
**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. Seems to be also activated by intracellular calcium store depletion.

**Tissue specificity**
Seems to be ubiquitous.

**Sequence similarities**
Belongs to the transient receptor (TC 1.A.4) family. STRpC subfamily. TRPC1 sub-subfamily. Contains 4 ANK repeats.

**Post-translational modifications**
Activation of PRKCA induces phosphorylation of TRPC1 and subsequent Ca2+ entry into cells.

**Cellular localization**
Membrane.

**Images**

Western blot showing the expression levels of TRPC1, which was significantly reduced in lysates from cells transfected with shTRPC1.

Briefly, proteins were separated by 10% SDS-PAGE and electrophoretically transferred for 2 hours at 0.8 mA/cm2, in a semi-dry blotter, onto nitrocellulose membranes for subsequent probing. Blots were incubated overnight with 10% (w/v) bovine serum albumin in Tris-buffered saline with 0.1% Tween 20 (TBST) to block residual protein binding sites. ab75322 was diluted 1/200 and incubated in TBST for 2 hours. To detect the primary antibody, blots were incubated for 1 hour with the appropriate horseradish peroxidase-conjugated anti-IgG antibody diluted 1/10,000 in TBST and then exposed to enhanced chemiluminescence reagents for 4 minutes. Blots were then exposed to photographic films. The density of bands on the film was measured using a scanning densitometry.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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