

Datasheet for ABIN7043822

## anti-TRPC4 antibody (2nd Extracellular Loop)



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### 3 Images

#### Overview

Quantity:	50 µL
Target:	TRPC4
Binding Specificity:	2nd Extracellular Loop, AA 458-469
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPC4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Live Cell Imaging (LCI)

#### Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KYSALNPRESWD, corresponding to amino acid residues 458-469 of rat TRPC4
Isotype:	IgG
Characteristics:	Anti-TRPC4 (extracellular) Antibody (ABIN7043822, ABIN7044067 and ABIN7044068)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, live cell imaging, and immunocytochemistry applications. It has been designed to recognize TRPC4 from mouse, rat, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

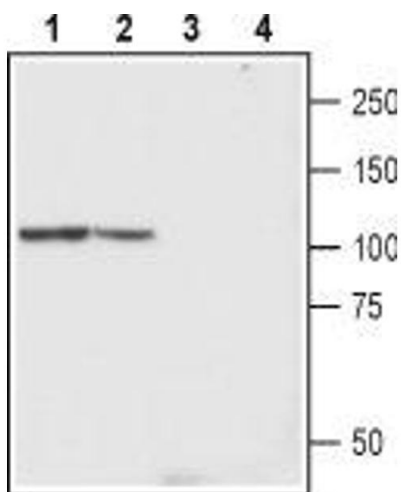
Target:	TRPC4
Alternative Name:	TRPC4 ( <a href="#">TRPC4 Products</a> )
Background:	Alternative names: TRPC4, Transient receptor potential channel 4, TRP4, hTrp4, Capacitative calcium entry channel Trp4, CCE1
Gene ID:	84494
NCBI Accession:	<a href="#">NM_003306</a>
UniProt:	<a href="#">O35119</a>

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

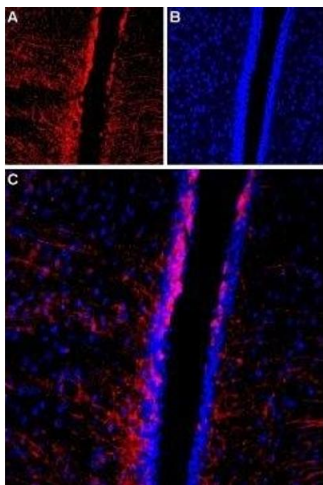
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



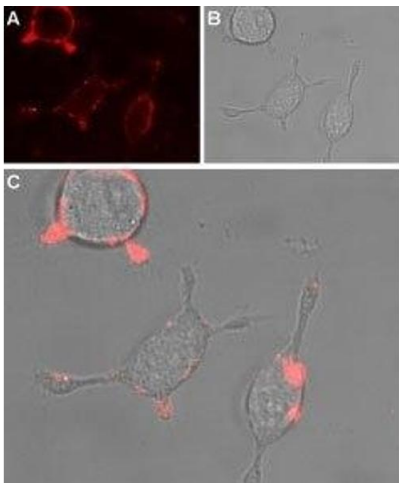
### Western Blotting

**Image 1.** Western blot analysis of rat brain lysates (lanes 1 and 3) and mouse brain lysates (lanes 2 and 4): - 1-2. Anti-TRPC4 (extracellular) Antibody (ABIN7043822, ABIN7044067 and ABIN7044068), (1:200).3-4. Anti-TRPC4 (extracellular) Antibody, preincubated with TRPC4 (extracellular) Blocking Peptide (#BLP-CC119).



### Immunohistochemistry

**Image 2.** Expression of TRPC4 in rat brain - Immunohistochemical staining of rat third ventricle region using Anti-TRPC4 (extracellular) Antibody (ABIN7043822, ABIN7044067 and ABIN7044068). A. TRPC4 staining (red) is detected along the wall of the third ventricle (horizontal arrow) and astrocytic fibers extending from the wall (vertical arrow). B. Nucleus staining using DAPI as the counterstain (blue). C. Merge images of A and B.



### Immunocytochemistry

**Image 3.** Expression of TRPC4 in rat PC12 cells - Cell surface detection of TRPC4 in intact living rat Pheochromocytoma (PC12) cells. A. Extracellular staining of cells using Anti-TRPC4 (extracellular) Antibody (ABIN7043822, ABIN7044067 and ABIN7044068), (1:50) followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Live view of the cells. C. Merged image of A and B.