

**TRPC3 Antibody**  
**Catalog # ASC10449****Specification**

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**TRPC3 Antibody - Product Information**

Application	IF
Primary Accession	<a href="#">Q13507</a>
Other Accession	<a href="#">CAA74083</a> , <a href="#">7222</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 93 kDa

## Application Notes

**Observed: 100 kDa**  
TRPC3 antibody can be used for the detection of TRPC3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL.

**TRPC3 Antibody - Additional Information**Gene ID **7222****Other Names**

TRPC3 Antibody: TRP3, TRP3, Short transient receptor potential channel 3, Transient receptor protein 3, TrpC3, transient receptor potential cation channel, subfamily C, member 3

**Target/Specificity**

TRPC3 antibody was raised against a 14 amino acid synthetic peptide from near the amino terminus of human TRPC3. <br><br>The immunogen is located within amino acids 120 - 170 of TRPC3.

**Reconstitution & Storage**

Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

TRPC3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TRPC3 Antibody - Protein Information****Name** TRPC3**Synonyms** TRP3**Function**

Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:<a

href="http://www.uniprot.org/citations/29726814" target="\_blank">29726814</a>, PubMed:<a href="http://www.uniprot.org/citations/30139744" target="\_blank">30139744</a>, PubMed:<a href="http://www.uniprot.org/citations/35051376" target="\_blank">35051376</a>, PubMed:<a href="http://www.uniprot.org/citations/9417057" target="\_blank">9417057</a>, PubMed:<a href="http://www.uniprot.org/citations/9930701" target="\_blank">9930701</a>, PubMed:<a href="http://www.uniprot.org/citations/10611319" target="\_blank">10611319</a>).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein

#### **Tissue Location**

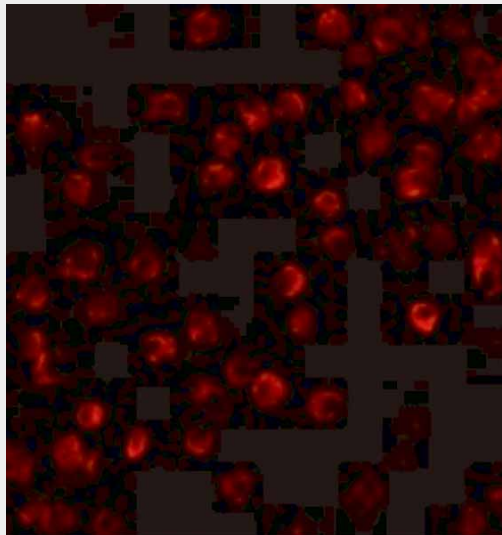
Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis

### **TRPC3 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **TRPC3 Antibody - Images**



Immunofluorescence of BTK in Daudi cells with BTK antibody at 10 µg/mL.

### **TRPC3 Antibody - Background**

TRPC3 Antibody: The mammalian transient receptor potential (TRP) superfamily can be divided into three major families including the "canonical TRP" (TRPC) family. The seven members of this family share the activation through PLC-coupled receptors and have been suggested to be components of receptor-regulated cation channels in different cell types. Furthermore, the members of the

TRPC3/6/7 subfamily can be activated by diacylglycerol analogs, suggesting a possible mechanism of activation of these channels by PLC-coupled receptors. TRPC3 encodes a  $\text{Ca}^{2+}$ -permeant channel that is agonist-activated but not store-operated or directly receptor-activated. TRPC3 physically interacts with TRPC6 and TRPC7 and forms functional tetrameric channels.

### **TRPC3 Antibody - References**

Contell C, Birnbaumer V, Flockerzi V, et al. A unified nomenclature for the superfamily of TRP cation channels. *Mol. Cell* 2002; 9:229-31.

Trebak M, Vazquez G, Bird GSJ, et al. The TRPC3/6/7 subfamily of cation channels. *Cell Calcium* 2003; 33:451-61.

Zitt C, Obukhov AG, Strubing C, et al. Expression of TRPC3 in Chinese hamster ovary cells results in calcium-activated cation currents not related to store depletion. *J. Cell. Biol.* 1997; 1333-41.