

**TRPC3 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11278****Specification**

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**TRPC3 Antibody (C-Terminus) - Product Information**

Application	IF, WB, IHC
Primary Accession	<a href="#">Q13507</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96kDa KDa

**TRPC3 Antibody (C-Terminus) - Additional Information****Gene ID** 7222**Other Names**

Short transient receptor potential channel 3, TrpC3, Transient receptor protein 3, TRP-3, hTrp-3, hTrp3, TRPC3, TRP3

**Target/Specificity**

14 amino acid peptide from near the carboxy terminus of human TRPC3

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

TRPC3 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**TRPC3 Antibody (C-Terminus) - Protein Information****Name** TRPC3**Synonyms** TRP3**Function**

Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:&lt;a href="http://www.uniprot.org/citations/29726814" target="\_blank"&gt;29726814&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/30139744" target="\_blank"&gt;30139744&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/35051376" target="\_blank"&gt;35051376&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/9417057" target="\_blank"&gt;9417057&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/9930701" target="\_blank"&gt;9930701&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/10611319" target="\_blank"&gt;10611319&lt;/a&gt;).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

### Tissue Location

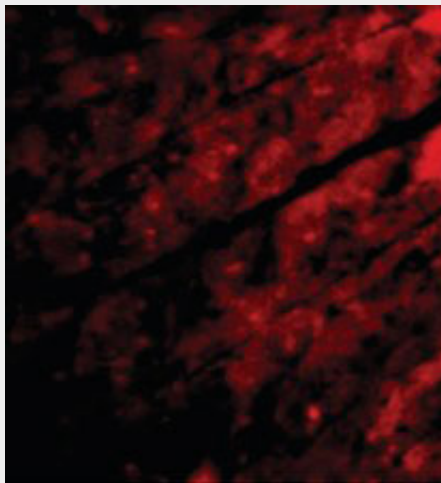
Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis

### TRPC3 Antibody (C-Terminus) - Protocols

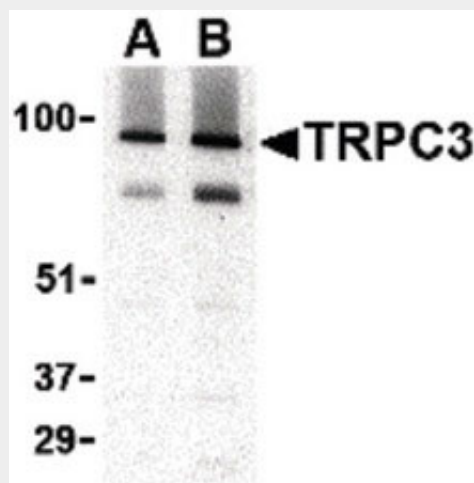
Provided below are standard protocols that you may find useful for product applications.

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

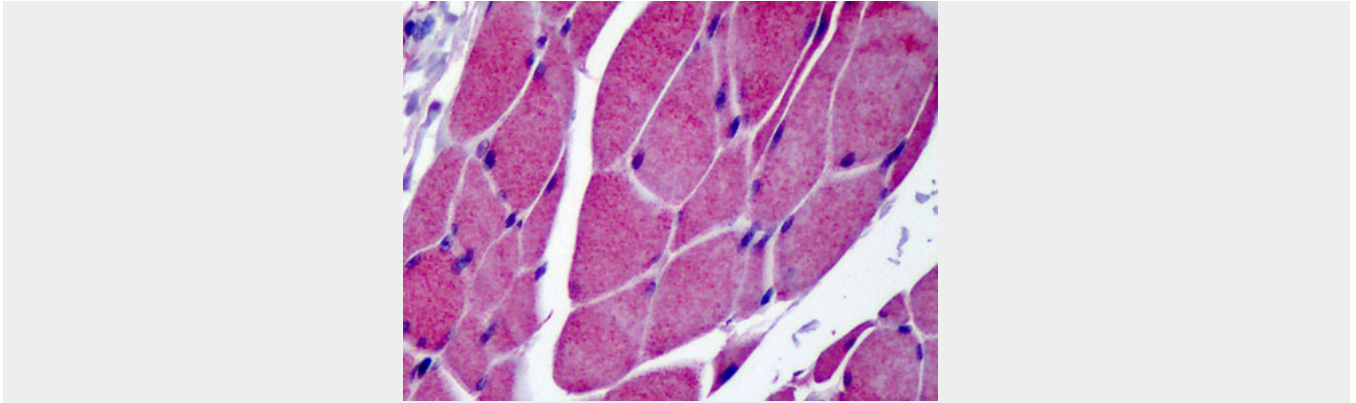
### TRPC3 Antibody (C-Terminus) - Images



Immunofluorescence of TRPC3 in Mouse Heart cells with TRPC3 antibody at 20 ug/ml.



Western blot of TRPC3 in human brain tissue lysate with TRPC3 antibody at (A) 1 and (B) 2 ug/ml.



Anti-TRPC3 antibody IHC of human skeletal muscle.

### **TRPC3 Antibody (C-Terminus) - Background**

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, and by inositol 1,4,5- triphosphate receptors (ITPR) with bound IP3. May also be activated by internal calcium store depletion.

### **TRPC3 Antibody (C-Terminus) - References**

- Zhu X.,et al.Cell 85:661-671(1996).
- Xu X.-Z.S.,et al.Cell 89:1155-1164(1997).
- Yildirim E.,et al.Proc. Natl. Acad. Sci. U.S.A. 102:3307-3311(2005).
- Yamazaki D.,et al.Submitted (MAR-2006) to the EMBL/GenBank/DDBJ databases.
- Hillier L.W.,et al.Nature 434:724-731(2005).