

## **TRPC3 Polyclonal Antibody**

YT5520 Catalog No:

Human; Mouse; Rat Reactivity:

**Applications:** WB;IHC;IF;ELISA

TRPC3 **Target:** 

Fields: >>Axon guidance;>>Spinocerebellar ataxia;>>Pathways of neurodegeneration -

multiple diseases

Gene Name: TRPC3

**Protein Name:** Short transient receptor potential channel 3

Q13507

Q9QZC1

**Human Gene Id:** 7222

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

Rat Swiss Prot No: Q9JMI9

The antiserum was produced against synthesized peptide derived from the Immunogen:

Internal region of human TRPC3. AA range:411-460

**Specificity:** TRPC3 Polyclonal Antibody detects endogenous levels of TRPC3 protein.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Polyclonal, Rabbit, IgG Source:

WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200 **Dilution:** 

The antibody was affinity-purified from rabbit antiserum by affinity-**Purification:** 

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/3



Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 97kD

Background:

transient receptor potential cation channel subfamily C member 3(TRPC3) Homo sapiens The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011],

Function:

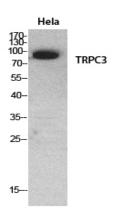
function:Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C, and by inositol-1,4,5-triphosphate receptors (ITPR) with bound IP3. May also be activated by internal calcium store depletion.,similarity:Belongs to the transient receptor family. STrpC subfamily.,similarity:Contains 5 ANK repeats.,subunit:Interacts with TRPC1. Interacts with ITPR3. Interacts with MX1 and RNF24.,tissue specificity:Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis.,

Subcellular Location : Membrane; Multi-pass membrane protein.

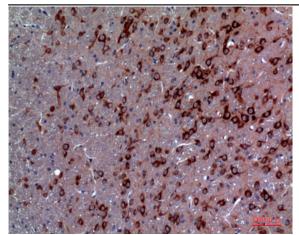
**Expression:** 

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

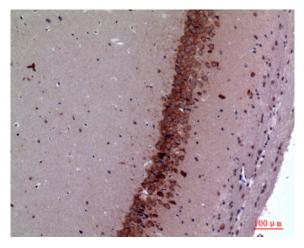
## **Products Images**



Western Blot analysis of HeLa cells using TRPC3 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mousebrain, antibody was diluted at 1:100