

Product datasheet for **TA336554**

TRPM2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	Immunocytochemistry/ Immunofluorescence: 1:50, Western Blot: 2 ug/ml
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide made to an internal portion of the mouse TRPM2 protein (within residues 1200-1300). [Swiss-Prot# Q91YD4]
Formulation:	PBS, 0.02% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	172 kDa
Gene Name:	transient receptor potential cation channel subfamily M member 2
Database Link:	NP_001001188 Entrez Gene 28240 Mouse Entrez Gene 294329 Rat O94759



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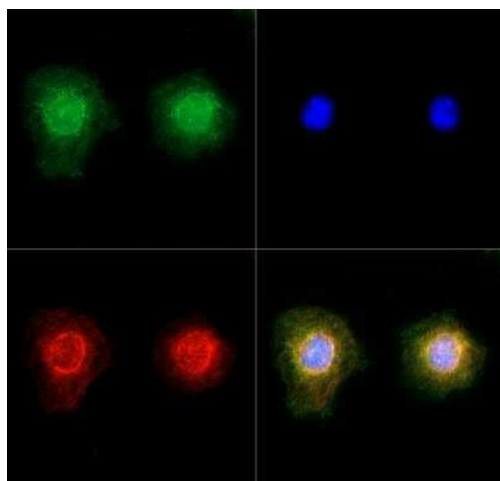
Background: TRP7 (transient receptor protein 7 or TRPC7) is the seventh identified member of mammalian TRPC channel family which includes nonselective cation channels that mediate changes in plasma membrane cation permeability induced by stimulation of PLC (phospholipase C, the cellular integrator that receives input from GPCRs/ RTK). Major cellular function of TRPC channels is to regulate Ca²⁺ influx across plasma membrane induced by stimulation of these receptors by hormones, neurotransmitters, and growth factors. Localized in the cell membrane and nuclear envelope as multi-pass membrane protein, TRPC7 interacts with with MX1, RNF24, PRKG1 etc. and PRKG1 mediated TRPC7 phosphorylation at Thr-15 site negatively regulates TRPC7's activity. TRP7 has been suggested to form a receptor-activated non-selective calcium permeant cation channel and is operated by a phosphatidylinositol second messenger system activated by RTKs or GPCRs. TRP7 is activated by DAG (diacylglycerol) and also upon intracellular calcium store depletion.

Synonyms: EREG1; KNP3; LTRPC2; MGC133383; NUDT9H; NUDT9L1; TRPC7

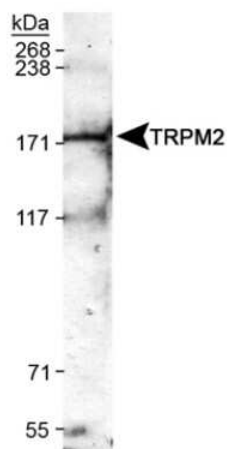
Note: This TRP7 antibody is useful in Immunocytochemistry/Immunofluorescence and Western blot, where a band is seen at ~172 kDa. In ICC/IF punctate membrane staining was observed in Neuro2A cells.

Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Product images:



Immunocytochemistry/Immunofluorescence: TRPM2 Antibody TA336554 - TRPM2 antibody was tested in Neuro2A cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Western Blot: TRPM2 Antibody TA336554 -
Detection of TRPM2 in mouse brain membrane
lysates using TA336554.