

KO463

For research use only

Anti Mouse Trpm2 Polyclonal Antibody

This antibody was prepared by Dr. Yasuo Mori, Kyoto University.

Code No. KO463
Target Trpm2
Category TRP channel
Gene ID 28240
Primary Source MGI:1351901
Synonyms Trp7; TRPC7; Trpp7; C79133; LTRPC2; 9830168K16Rik; Trpm2
Type Polyclonal Antibody
Immunogen Partial peptide of Mouse Trpm2 C-terminal region

Raised in Rabbit
Myeloma -
Clone number -
Purification Antigen Affinity
Source Rabbit Serum
Isotype -
Cross Reactivity Human, Rat
Label Unlabeled
Concentration 0.25 mg/mL
Contents (Volume) 25 µg (100 µL/vial)
Buffer PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]
Storage Store below -20°C. Once thawed, store at 4°C. Repeated freeze-thaw cycles should be avoided.
Application ELISA, WB, IHC, ICC

ELISA	WB	IHC	ICC
1.0	1.0-5.0	5.0-10	1.0-5.0
IP	FCM	IF	Neutralization
Not tested	Not tested	Not tested	Not tested

(µg/mL)

Reference

- Hara Y, et al. LTRPC2 Ca²⁺-permeable channel activated by changes in redox status confers susceptibility to cell death. *Mol Cell*. 2002 Jan;9(1):163-73. *Application Reference
- Togashi K, et al. TRPM2 activation by cyclic ADP-ribose at body temperature is involved in insulin secretion. *EMBO J*. 2006 May 3;25(9):1804-15. *Application Reference
- Yamamoto S, et al. TRPM2-mediated Ca²⁺ influx induces chemokine production in monocytes that aggravates inflammatory neutrophil infiltration. *Nat Med*. 2008 Jul;14(7):738-47. *Application Reference

UniPlot Summary

//Function: Nonselective, voltage-independent cation channel mediating sodium and calcium ion influx in response to oxidative stress. Extracellular calcium passes through the channel and acts from the intracellular side as a positive regulator in channel activation. Activated by ADP-ribose, nicotinamide adenine dinucleotide (NAD⁺), reactive nitrogen species and arachidonic acid. Inactivated by intracellular ATP. Confers susceptibility to cell death following oxidative stress. Has ADP-ribose pyrophosphatase activity.

//Tissue specificity: Widely expressed, with highest levels in lung, spleen, eye and brain.

//Sequence similarities: Belongs to the transient receptor family. LTRPC subfamily. Contains 1 nudix hydrolase domain.