



KAL-KO463

For research use only

Anti Mouse Trpm2 Polyclonal Antibody

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

Code No. KAL-KO463
Target Trpm2
Category TRP channel
Gene ID 28240
Primary Source MGI:1351901
Synonyms Trp7; TRPC7; Trp7; 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

1. 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
2. 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
3. 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 Referenc

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.

Manufactured by  TransGenic Inc.



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