



KAL-KO464

For research use only

Anti Mouse Trpm7 Polyclonal Antibody

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

Code No. KAL-KO464
Target Trpm7
Category TRP channel
Gene ID 58800
Primary Source MGI:1929996
Synonyms CHAK; CHAK1; Ltp7; Ltrpc7; TRP-PLIK; 2310022G15Rik; 4833414K03Rik; 5033407O22Rik; Trpm7
Type Polyclonal Antibody
Immunogen Partial peptide of Mouse Trpm7 C-terminal region

Raised in Rabbit
Myeloma -
Clone number -
Purification Antigen Affinity
Source Rabbit Serum
Isotype -
Cross Reactivity Human
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

ELISA	WB	IHC	ICC
1.0	Not tested	Not tested	Not tested
IP	FCM	IF	Neutralization
Not tested	Not tested	Not tested	Not tested

(µg/mL)

Reference

- Numata T, et al. TRPM7 is a stretch- and swelling-activated cation channel involved in volume regulation in human epithelial cells. *Am J Physiol Cell Physiol.* 2007 Jan;292(1):C460-7. *Application Reference
- Hanano T, et al. Involvement of TRPM7 in cell growth as a spontaneously activated Ca²⁺ entry pathway in human retinoblastoma cells. *J Pharmacol Sci.* 2004 Aug;95(4):403-19. *Application Reference

UniPlot Summary

//Function: Essential ion channel and serine/threonine-protein kinase. Divalent cation channel permeable to calcium and magnesium. Has a central role in magnesium ion homeostasis and in the regulation of anoxic neuronal cell death. The kinase activity is essential for the channel function. May be involved in a fundamental process that adjusts plasma membrane divalent cation fluxes according to the metabolic state of the cell. Phosphorylates annexin A1 (ANXA1).

//Tissue specificity: Found to be expressed in brain and skeletal muscle, with stronger signals in kidney, heart, liver and spleen.

//Sequence similarities: In the C-terminal section; belongs to the protein kinase superfamily. Alpha-type protein kinase family. ALPK subfamily. In the N-terminal section; belongs to the transient receptor family. LTrpC subfamily. Contains 1 alpha-type protein kinase domain.

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