

## KO464

For research use only

## Anti Mouse Trpm7 Polyclonal Antibody

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

Code No.	KO464			
Terget	Trpm7			
Category	TRP channel			
Gene ID	58800			
Primary Source	MGI:1929996			
Synonyms	CHAK; CHAK1; Ltpr7; Ltrpc7; TRP-PLIK; 2310022G15Rik; 4833414K03Rik; 5033407O22Rik; Trpm7			
Туре	Polyclonal Antibody			
Immunogen	Partial peptide of Mouse Trpm7 C-terminal region			
Raised in	Rabbit			
Myeloma	-			
Clone number	-			
Purification	Antigen Affinity			
Source	Rabbit Serum			
lsotype	-			
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 $-20^\circ$ C. Once thawed, store at $4^\circ$ 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

## Reference

1. 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

 $(\mu q/mL)$ 

2. 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.

