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Datasheet

TRPV1 monoclonal antibody (M02), clone 1A8

Catalog Number: H00007442-M02

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant TRPV1.

Clone Name: 1A8

Immunogen: TRPV1 (NP_542437, 21 a.a. ~ 124 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:
CPDPLDGDPNSRPPPAKPQLSTAKSRTRLFGKGDSEE AFPVDCPHEEGELDSCPTITVSPVITIQRPGDGPTGAR LLSQDSVAASTEKTLRLYDRRSIFEAVAQ

Host: Mouse

Reactivity: Human,Rat

Applications: ELISA, S-ELISA, WB-Re, WB-Ti
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 7442

Gene Symbol: TRPV1

Gene Alias: DKFZp434K0220, VR1

Gene Summary: Capsaicin, the main pungent ingredient in hot chili peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system. The protein encoded by this gene is a receptor for capsaicin and is a non-selective cation channel that is structurally related to members of the TRP family of ion channels. This receptor is also activated by increases in temperature in the noxious range, suggesting that it functions as a transducer of painful thermal stimuli in vivo. Four transcript variants encoding the same protein, but with different 5' UTR sequence, have been described for this gene. [provided by RefSeq]

References:

1. The molecular pathway of ATP-sensitive potassium channel in endothelial cells for mediating arteriole relaxation. Chen X, Han W, Zhang Y, Cui W, Pan Z, Jin X, Long C, Wang H. Life Sci. 2015 Jul 15. [Epub ahead of print]
2. Nerve growth factor rescues diabetic mice heart after ischemia/reperfusion injury via up-regulation of the TRPV1 receptor. Zheng LR, Zhang YY, Han J, Sun ZW, Zhou SX, Zhao WT, Wang LH. J Diabetes Complications. 2015 Apr;29(3):323-8.
3. Nerve growth factor rescues diabetic mice heart after ischemia/reperfusion injury via up-regulation of the TRPV1 receptor. Zheng LR, Zhang YY, Han J, Sun ZW, Zhou SX, Zhao WT, Wang LH J Diabetes Complications. 2015 Jan 16. pii: S1056-8727(15)00007-0. doi: 10.1016/j.jdiacomp.2015.01.006.