

Datasheet

TRPV1 monoclonal antibody (M01), clone 1F5

Catalog Number: H00007442-M01

Regulatory Status: For research use only (RUO)

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

Clone Name: 1F5

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:

CPDPLDGDPNRPPPAKPQLSTAKSRTRLFGKGDSEE
AFPVDCPHEEGELDSCPTITVSPVITIQRPGDGPTGAR
LLSQDSVAASTEKTLRLYDRRSIFEAVAQ

Host: Mouse

Reactivity: Human, Rat

Applications: ELISA, S-ELISA, WB-Re
(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: IgG1 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. Upregulation of Vanilloid Receptor-1 in Functional Dyspepsia With or Without Helicobacter pylori Infection. Choi YJ, Kim N, Kim J, Lee DH, Park JH, Jung HC. Medicine (Baltimore). 2016 May;95(19):e3410.
2. Human odontoblasts express functional thermo-sensitive TRP channels: Implications for dentin sensitivity. El Karim IA, Linden GJ, Curtis TM, About I, McGahon MK, Irwin CR, Lundy FT. Pain. 2010 Dec 16. [Epub ahead of print]
3. Endogenous expression of TRPV1 channel in cultured human melanocytes. Endogenous expression of TRPV1 channel in cultured human melanocytes. J Dermatol Sci. 2009 Nov;56(2):128-30. Epub 2009 Aug 4.