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TRPV1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TRPV1.
Catalog # AT4370a

Product Information

Application	WB, E
Primary Accession	Q8NER1
Other Accession	NM_080706
Reactivity	Human, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1F5
Calculated MW	94956

Additional Information

Gene ID	7442
Other Names	Transient receptor potential cation channel subfamily V member 1, TrpV1, Capsaicin receptor, Osm-9-like TRP channel 1, OTRPC1, Vanilloid receptor 1, TRPV1, VR1
Target/Specificity	TRPV1 (NP_542437, 21 a.a. ~ 124 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TRPV1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

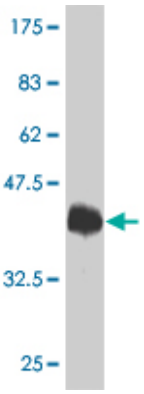
Background

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.

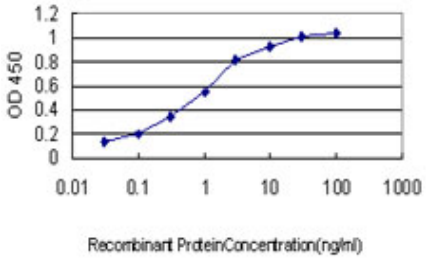
References

1.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]2.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.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.18 KDa) .



Detection limit for recombinant GST tagged TRPV1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.