10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRPV1 Antibody (monoclonal) (M01)

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

Specification

TRPV1 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q8NER1
Other Accession	NM_080706
Reactivity	**Human, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**94956**

TRPV1 Antibody (monoclonal) (M01) - 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.

TRPV1 Antibody (monoclonal) (M01) - Protocols

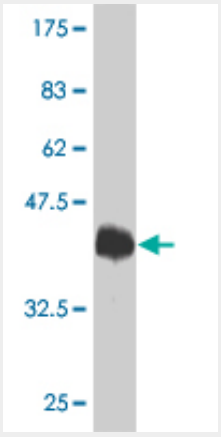
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

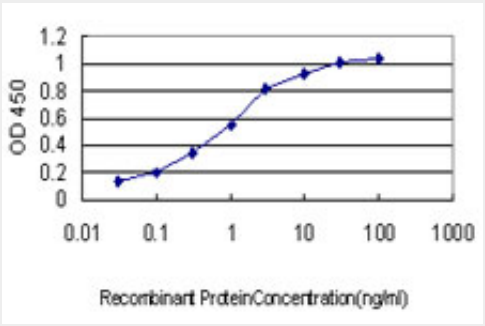
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRPV1 Antibody (monoclonal) (M01) - 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.

TRPV1 Antibody (monoclonal) (M01) - 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.

TRPV1 Antibody (monoclonal) (M01) - 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.