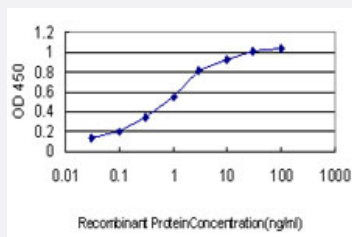


TRPV1 monoclonal antibody (M01), clone 1F5

Catalog # H00007442-M01

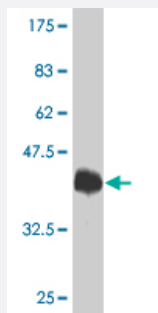
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (37.18 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant TRPV1.

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

CPDPLDGDPNRPPPAKPQLSTAKSRTLFGKGDSEEAFFVDCPHEEGELDSCPTITVSPVITIQ
RPGDGPTGARLLSQDSVAASTEKTLRLYDRRSIFEAVAQ

Host

Mouse

Reactivity

Human, Rat

Isotype

IgG1 Kappa

Quality Control Testing

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

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

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

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

Gene Info — TRPV1

Entrez GeneID

[7442](#)

GeneBank Accession#

[NM_080706](#)

Protein Accession#

[NP_542437](#)

Gene Name

TRPV1

Gene Alias

DKFZp434K0220, VR1

Gene Description

transient receptor potential cation channel, subfamily V, member 1

Omim ID

[602076](#)

Gene Ontology

[Hyperlink](#)

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]

Other Designations

capsaicin receptor|transient receptor potential vanilloid 1a|transient receptor potential vanilloid 1b|
vanilloid receptor subtype 1

Publication Reference

- [Endogenous Mas-related G-protein-coupled receptor X1 activates and sensitizes TRPA1 in a human model of peripheral nerves.](#)

Hayley McMillan, Fionnuala T Lundy, Orla M Dunne, Banan Al-Natour, Charlotte Jeanneau, Imad About, Tim M Curtis, Ikhlas El Karim.

FASEB Journal 2021 May; 35(5):e21492.

Application: IF, IHC, Human, Human dental pulp, Human peripheral neuronal equivalent cells

- [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 2016 May; 95(19):e3410.

Application: WB, Human, AGS cell

- [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 2011 Oct; 152(10):2211.

Application: IHC, WB, Human, Odontoblast cells

- [Endogenous expression of TRPV1 channel in cultured human melanocytes.](#)

Choi TY, Park SY, Jo JY, Kang G, Park JB, Kim JG, Hong SG, Kim CD, Lee JH, Yoon TJ.

Journal of Dermatological Science 2009 Nov; 56(2):128.

Application: WB-Ce, Human, Fibroblasts, HaCaT, Keratinocytes, Melanocytes

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Abdominal Pain](#)
- [Asperger Syndrome](#)

- [Asthma](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Dyspepsia](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Obesity](#)
- [Pain](#)
- [Pancreatitis](#)
- [Social Perception](#)
- [Tobacco Use Disorder](#)