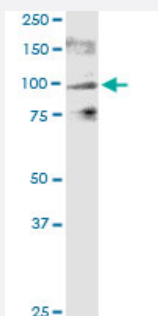


TRPV1 monoclonal antibody (M02), clone 1A8

Catalog # H00007442-M02

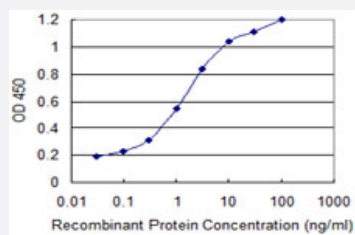
Size 100 ug

Applications



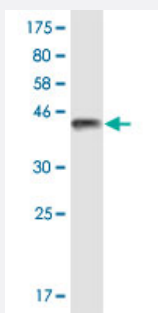
Western Blot (Tissue lysate)

TRPV1 monoclonal antibody (M02), clone 1A8. Western Blot analysis of TRPV1 expression in rat thymus.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TRPV1 is 0.03 ng/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	IgG2a 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 (Tissue lysate)

TRPV1 monoclonal antibody (M02), clone 1A8. Western Blot analysis of TRPV1 expression in rat thymus.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TRPV1 is 0.03 ng/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

- [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 Sciences 2015 Sep; 137:164.
Application: WB-Ce, Human, EA.hy926 cells
- [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.
Journal of Diabetes and Its Complications 2015 Apr; 29(3):323.
Application: WB, Mouse, Heart

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](#)