

Product Datasheet

Vanilloid R1/TRPV1 Antibody - BSA Free NBP1-97417

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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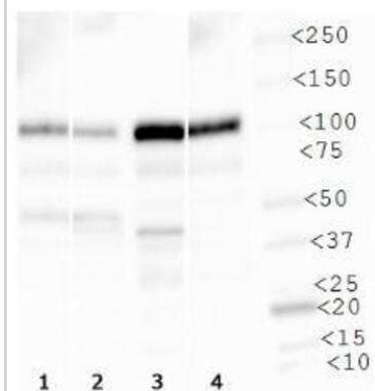
NBP1-97417

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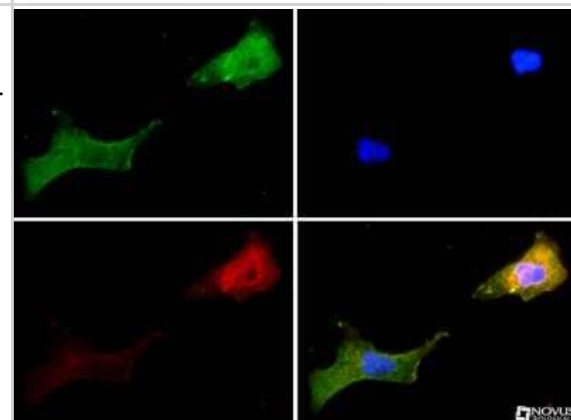
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Product Description	
Host	Rabbit
Gene ID	7442
Gene Symbol	TRPV1
Species	Human, Mouse, Rat, Invertebrate, Primate
Reactivity Notes	Reactive to Octopus vulgaris.
Immunogen	A synthetic peptide made to an N-terminal portion of the rat TRPV1 protein (between residues 1-50) [Uniprot: O35433]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunofluorescence, Immunohistochemistry (Negative)
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:40, Immunohistochemistry (Negative), Immunofluorescence
Application Notes	In Western Blot, a band is seen at ~100 kDa representing TRPV1. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. In ICC/IF, plasma membrane staining is observed in Ntera-2 cells. This antibody is not recommended for IHC-paraffin embedded sections.

Images

Western Blot: Vanilloid R1/TRPV1 Antibody [NBP1-97417] - Analysis of TRPV1 in following cell lysates: (1) Ntera2, (2) HepG2, (3) MCF7, and (4) Cos7.



Immunocytochemistry/Immunofluorescence: Vanilloid R1/TRPV1 Antibody [NBP1-97417] - TRPV1 Antibody [NBP1-97417] - TRPV1 antibody was tested in Ntera-2 cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Publications

Jeong JH, Lee DK, Liu SM et al. Activation of temperature-sensitive TRPV1-like receptors in ARC POMC neurons reduces food intake PLoS Biol. 2018-04-01 [PMID: 29689050]

Lambiase A, Mallone F, Sacchetti M et al. Patients with neurotrophic keratitis demonstrate alterations in ocular surface expression of transient receptor potential (TRP) channels The ocular surface 2023-11-07 [PMID: 37939847] (WB, Human)

Zeng H, Li P, Zhou D et al. Sophocarpine inhibits TRP channels to produce anti-pruritic and analgesic effects in a mouse model of inflammatory itch and pain bioRxiv 2023-10-16 (WB, Mouse)

Wang SH, Huang SH, Hsieh MC et al. Hyperbaric Oxygen Therapy Alleviates Paclitaxel-Induced Peripheral Neuropathy Involving Suppressing TLR4-MyD88-NF- κ B Signaling Pathway International journal of molecular sciences 2023-03-11 [PMID: 36982452] (WB, ICC/IF, Rat)

Blažević T, Ciotu CI, Gold-Binder M et al. Cultured rat aortic vascular smooth muscle cells do not express a functional TRPV1 PloS one 2023-02-14 [PMID: 36787302] (Rat)

Wamba B, Ghosh P, Mbaveng A, et al. Botanical from Piper capense Fruit Can Help to Combat the Melanoma as Demonstrated by In Vitro and In Vivo Studies Evid Based Complement Alternat Med 2021-05-19 [PMID: 34007300]

Rossi F, Tortora C, Di Martino M et al. Alteration of osteoclast activity in childhood cancer survivors: Role of iron and of CB2/TRPV1 receptors PloS one 2022-07-21 [PMID: 35862357]

Lee BM, Jang Y, Park G et al. Dexmedetomidine modulates transient receptor potential vanilloid subtype 1 Biochem. Biophys. Res. Commun. 2019-11-30 [PMID: 31796207] (ICC/IF, Mouse)

Roman K, Hall C, Schaeffer AJ, Thumbikat P TRPV1 in experimental autoimmune prostatitis Prostate 2019-10-01 [PMID: 31573117] (WB, Mouse)

Schwab AJ, Ebert AD. Neurite Aggregation and Calcium Dysfunction in iPSC-Derived Sensory Neurons with Parkinson's Disease-Related LRRK2 G2019S Mutation. Stem Cell Reports. 2015-12-08 [PMID: 26651604] (ICC/IF, Human)

Billeter AT, Galbraith N, Walker S et al. TRPA1 mediates the effects of hypothermia on the monocyte inflammatory response Surgery. 2015-06-05 [PMID: 26054320]

Schwab AJ, Ebert AD. Sensory neurons do not induce motor neuron loss in a human stem cell model of spinal muscular atrophy. PLoS ONE 2014-07-24 [PMID: 25054590] (ICC/IF, Human)

Details:

TRPV1 antibody used for ICC-IF on induced pluripotent stem cells (iPSCs) - 4% paraformaldehyde /PFA -20 min RT fixation, 0.2% Triton X-100 - 30 min RT permeabilization, blocking with 5% normal goat serum.



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-97417

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-97417R	Vanilloid R1/TRPV1 Antibody [DyLight 550]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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