Product Datasheet

Vanilloid R1/TRPV1 Antibody - BSA Free
NBP1-97417

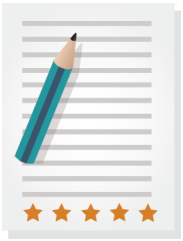
Unit Size: 0.1 ml

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

Reviews: 1 Publications: 12

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-97417

Updated 9/9/2025 v.20.1



NBP1-97417

Vanilloid R1/TRPV1 Antibody - BSA Free

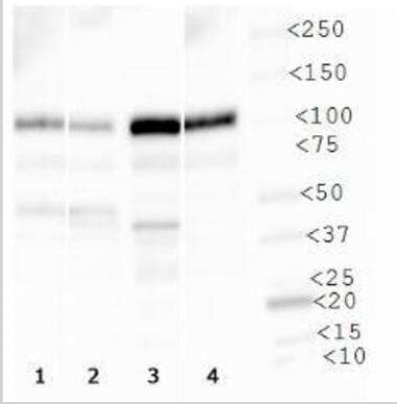
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit Vanilloid R1/TRPV1 Antibody - BSA Free (NBP1-97417) is a polyclonal antibody validated for use in WB and ICC/IF. Anti-Vanilloid R1/TRPV1 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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]

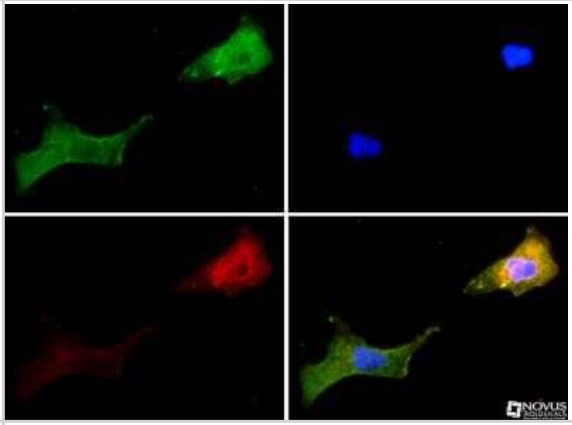
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunofluorescence, Immunohistochemistry (Negative)
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:40, Immunohistochemistry (Negative), Immunofluorescence
Application 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

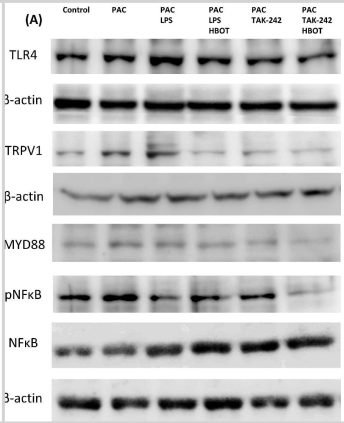
Western Blot: Vanilloid R1/TRPV1 Antibody [NBP1-97417] - Analysis of TRPV1 in following cell lysates: (1) Ntera2, (2) HepG2, (3) MCF7, and (4) Cos7.



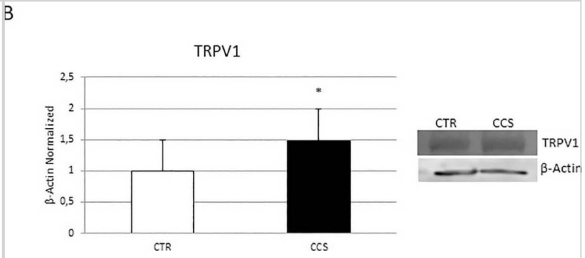
Immunocytochemistry/Immunofluorescence: Vanilloid R1/TRPV1 Antibody [NBP1-97417] - TRPV1 Antibody [NBP1-97417] - TRPV1 antibody was tested in Ntera-2 cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



The expression of TLR4, TRPV1, MyD88, pNF-κB and NF-κB in the rat spinal cord dorsal horn. (A) Western blotting analysis of TLR4, TRPV1, MyD88, pNF-κB and NF-κB. (B) Representative bar graphs illustrating the quantitative analysis of Western blotting results. Significantly increased expression of TLR4, TRPV1, MyD88 and pNF-κB/NF-κB in the PAC and PAC/LPS groups compared to other groups. Each bar represents mean +/- SEM (n = 6 per group). * p < 0.05, ** p < 0.01, ns: not significant. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/36982452), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



CB2 and TRPV1 expression in OCs derived from CCS.Protein expression of CB2 (A) and TRPV1 (B) in OCs from 5 Childhood cancer survivors (CCS) compared with OCs from 5 healthy subjects (CTR), determined by Western Blot starting from 15µg of total lysate. The most representative images are showed. The Image Studio Digits software has been used for the protein bands density detection. The intensity ratios of immunoblots compared to CTR, considered as 1, were quantified after normalization with the housekeeping protein β-Actin. Histogram shows the relative quantification for CB2 and TRPV1 expression as mean +/- SD of independent experiments on each individual sample. For statistical analysis it has been used a t-test. *Indicates p ≤ 0.05 compared to CTR. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/35862357), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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] (Immunocytochemistry/ Immunofluorescence, Human)

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-?B Signaling Pathway International journal of molecular sciences 2023-03-11 [PMID: 36982452] (WB, ICC/IF, Rat)

Bla□evi? 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 permeablization, blocking with 5% normal goat serum.

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Products Related to NBP1-97417

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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