

# Product Datasheet

## Vanilloid R1/TRPV1 Antibody

### NB100-98886

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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**NB100-98886**

## Vanilloid R1/TRPV1 Antibody

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Reconstitution Instructions</b>	Reconstitute in 0.1 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Lyophilized from whole antisera

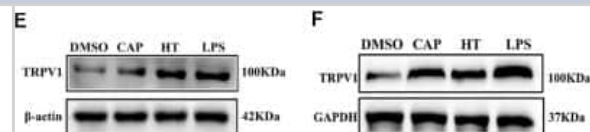
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Vanilloid R1/TRPV1 Antibody (NB100-98886) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Vanilloid R1/TRPV1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	7442
<b>Gene Symbol</b>	TRPV1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 21515789).
<b>Immunogen</b>	A synthetic peptide from the 1 <sup>st</sup> cytoplasmic loop of human Vanilloid R1/TRPV1 conjugated to blue carrier protein was used as the antigen.

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:1000
<b>Application Notes</b>	IHC reported in scientific literature (PMID: 31680864). ICC/IF reported in scientific literature (PMID: 21515789).

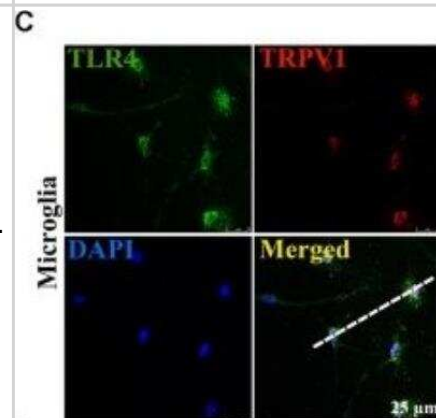


## Images

**Western Blot: Vanilloid R1/TRPV1 Antibody [NB100-98886]** - The expressed and electrophysiology properties of Vanilloid R1/TRPV1 in primary cultured microglia. Representative Immunoblot bands and densitometric analysis of total protein (E) and membrane protein expression (F) of Vanilloid R1/TRPV1 in cortical primary cultured microglia with or without pretreatment of CAP (10  $\mu$ M), hyperthermia (43C, 4\*30 min) or LPS (1.0  $\mu$ g/ml, 24 h). Data were presented as means  $\pm$  SEM, n = 3 per groups, \*p < 0.05, \*\*p < 0.01, one-way analysis of variance (ANOVA) followed by Dunnett's multiple comparison test with DMSO. Ctrl, Control; CAP, capsaicin; HT, hyperthermia. Image collected and cropped by CiteAb from the following publication ([www.frontiersin.org/articles/10.3389/fncel.2019.00442/full](http://www.frontiersin.org/articles/10.3389/fncel.2019.00442/full)) licensed under a CC-BY license.



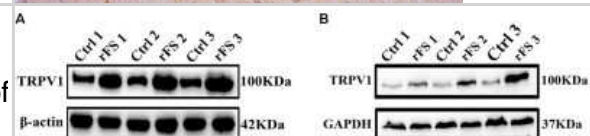
**Immunocytochemistry/Immunofluorescence: Vanilloid R1/TRPV1 Antibody [NB100-98886]** - Vanilloid R1/TRPV1 and toll-like receptor 4 (TLR4) mutually inhibited the transforming growth factor-beta1 (TGF-beta1) signaling in activated microglia. Photomicrograph immunocytochemistry indicated different co-expression of Vanilloid R1/TRPV1 (visualized in red Cy3), TLR4 (visualized in green DyLight 488), and cell nuclei (visualized in dark blue DAPI) in activated microglia. Image collected and cropped by CiteAb from the following publication ([www.frontiersin.org/article/10.3389/fncel.2019.00442/full](http://www.frontiersin.org/article/10.3389/fncel.2019.00442/full)) licensed under a CC-BY license.



**Immunohistochemistry-Paraffin: Vanilloid R1/TRPV1 Antibody [NB100-98886]** - Human hippocampus. HIER: Tris-EDTA, pH 9 for 20 min. Blocking: 0.2% LFDM in TBST filtered thru 0.2  $\mu$ m



**Western Blot: Vanilloid R1/TRPV1 Antibody [NB100-98886]** - Transient receptor potential vanilloid type 1 (Vanilloid R1/TRPV1) protein expression pattern in cortical microglia after rFS. Western blot analysis of total protein (A) and membrane protein expression (B) of Vanilloid R1/TRPV1 in three samples from rFSs group's mice. Image collected and cropped by CiteAb from the following publication ([www.frontiersin.org/articles/10.3389/fncel.2019.00442/full](http://www.frontiersin.org/articles/10.3389/fncel.2019.00442/full)) licensed under a CC-BY license.



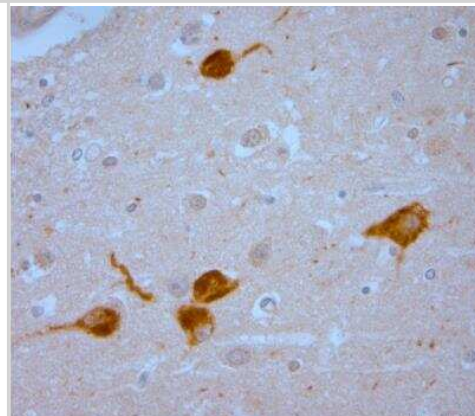
Immunohistochemistry-Paraffin: Vanilloid R1/TRPV1 Antibody [NB100-98886] - Human hippocampus. HIER: Tris-EDTA, pH 9 for 20 min. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um.



Immunohistochemistry-Paraffin: Vanilloid R1/TRPV1 Antibody [NB100-98886] - Human hippocampus. HIER: Tris-EDTA, pH 9 for 20 min. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um



Immunohistochemistry-Paraffin: Vanilloid R1/TRPV1 Antibody [NB100-98886] - Human hippocampus. HIER: Tris-EDTA, pH 9 for 20 min. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um



Immunohistochemistry-Paraffin: Vanilloid R1/TRPV1 Antibody [NB100-98886] - Human hippocampus. HIER: Tris-EDTA, pH 9 for 20 min. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um



Immunohistochemistry-Paraffin: Vanilloid R1/TRPV1 Antibody [NB100-98886] - Human hippocampus. HIER: Tris-EDTA, pH 9 for 20 min. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um



## Publications

Kiss F, Kormos V, Szoke E et al. Functional Transient Receptor Potential Ankyrin 1 and Vanilloid 1 Ion Channels Are Overexpressed in Human Oral Squamous Cell Carcinoma International journal of molecular sciences 2022-02-08 [PMID: 35163843] (Immunohistochemistry, Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse)

Huerta TS, Haider B, Adamovich-Zeitlin R et al. Calcium imaging and analysis of the jugular-nodose ganglia enables identification of distinct vagal sensory neuron subsets Journal of neural engineering 2023-03-15 [PMID: 36920156] (IHC, Mouse)

Wang X, Yang XL, Kong WL et al. TRPV1 translocated to astrocytic membrane to promote migration and inflammatory infiltration thus promotes epilepsy after hypoxic ischemia in immature brain J Neuroinflammation 2019-11-13 [PMID: 31722723] (WB, ICC/IF, Mouse)

Kong W, Wang X, Yang X et al. Activation of TRPV1 Contributes to Recurrent Febrile Seizures via Inhibiting the Microglial M2 Phenotype in the Immature Brain Front. Cell. Neurosci. 2019-10-11 [PMID: 31680864] (IF/IHC, Mouse)

Matulonis UA, Hirsch M, Palescandolo E et al. High throughput interrogation of somatic mutations in high grade serous cancer of the ovary. PLoS One 2011-01-01 [PMID: 21931712] (Human)

Wood P, Mulay V, Darabi M, et al. Ras/mitogen-activated protein kinase (MAPK) signaling modulates protein stability and cell surface expression of scavenger receptor SR-BI J Biol Chem 2011-07-01 [PMID: 21525007]

Qi J, Buzas K, Fan H, Cohen J et al. Painful pathways induced by TLR stimulation of dorsal root ganglion neurons J Immunol 2011-06-01 [PMID: 21515789] (WB, IF/IHC, ICC/IF, Human, Mouse)



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### **Products Related to NB100-98886**

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NBL1-17340	Vanilloid R1/TRPV1 Overexpression Lysate
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

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### **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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