

## DESCRIPTION

<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat Vanilloid R1/TRPV1 in immunohistochemistry.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	KLH-coupled rat Vanilloid R1/TRPV1 synthetic peptide RASLDSEESPPQENSC Accession # O35433
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

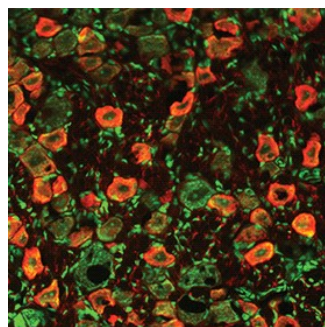
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

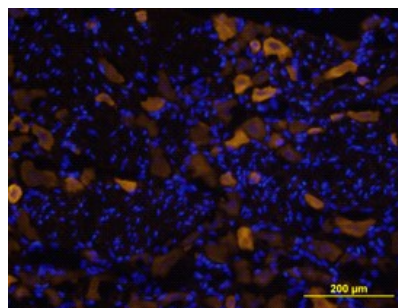
## DATA

### Immunohistochemistry



**Vanilloid R1/TRPV1 in Rat Dorsal Root Ganglion.** Vanilloid R1/TRPV1 was detected in perfusion fixed frozen sections of rat dorsal root ganglion using 15 µg/mL Goat Anti-Rat Vanilloid R1/TRPV1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3066) overnight at 4 °C. Tissue was stained (red) and counterstained (green). View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

### Immunohistochemistry



**Vanilloid R1/TRPV1 in Rat Brain.** Vanilloid R1/TRPV1 was detected in perfusion fixed frozen sections of rat brain using Rat Vanilloid R1/TRPV1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3066) at 15 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

VR1, also known as TRPV1 (Transient Receptor Potential Vanilloid 1) and capsaicin receptor, is a 115 kDa integral membrane ion channel that has six transmembrane domains and contains intracellular N- and C-termini. It contributes to normal pain and temperature sensation and also has a "sensory-effector" function. By alternative splicing, at least three VR1 isoforms are known. The sequence of residues 4-21 of rat VR1 is 78% and 28% identical to that of mouse and human VR1, respectively.