

NEUROMICS

VR1 N-terminus Datasheet

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| Catalog Number: | RA10110 | Host: | Rabbit |
| Product Type: | Polyclonal antiserum | Species Reactivity: | Rat |
| Immunogen Sequence: | RASLDSESESPQENSC Corresponding to residues 4-21 of the amino-terminus of rat VR1 | Format: | Whole Serum (with 0.05% sodium azide) Sent in liquid form |
| Applications: | Immunohistochemistry 1:1000; Immunocytochemistry 1:1000 Western Blotting 1:1000 Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator. | | |
| Storage: | Store frozen. Aliquot as undiluted serum and immediately place at -20°C. Serum may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles compromise the integrity of the antiserum. | | |
| References: | Guo, A., Vulchanova, L., Wang, J., Li, X., and Elde, R. (1999). <i>Immunocytochemical localization of the vanilloid receptor 1 (VR1): relationship to neuropeptides, the P2X3 purinoceptor and IB4 binding sites.</i> Eur J Neurosci 11, 946-58. Caterina, M. J., Schumacher, M. A., Tominaga, M., Rosen, T. A., Levine, J. D., and Julius, D. (1997). <i>The capsaicin receptor: a heat-activated ion channel in the pain pathway [see comments].</i> Nature 389, 816-24. | | |

Application Notes

Immunohistochemistry: Antiserum was used on perfusion fixed tissue. Perfusion: 1) calcium-free Tyrode's solution, 2) fixative, and 3) 10% sucrose in PBS as a cryo-protectant. Desired tissues were dissected and stored overnight in 10% sucrose in PBS.

Slide-mounted tissue sections were processed for indirect immunofluorescence. Slides were incubated with blocking buffer for 1 hour at room temperature. Primary antiserum was diluted with blocking buffer to the appropriate working concentration. Blocking buffer was removed and slides were incubated for 18-24 hours at 4°C with primary antiserum. Slides were rinsed 3 times and then incubated with secondary antibodies for 1 hour at room temperature. Slides were again rinsed 3 times and coverslipped. Staining was examined using fluorescence microscopy.

Immunocytochemistry: VR1 transfected cells were processed for indirect immunofluorescence. Media was removed and cells were gently washed 3 times with serum-free media. Following fixation procedure, cells were processed for indirect immunofluorescence as described above.

Western Blotting: for more information see Guo, A., Vulchanova, L., Wang, J., Li, X., and Elde, R. (1999). *Immunocytochemical localization of the vanilloid receptor 1 (VR1): relationship to neuropeptides, the P2X3 purinoceptor and IB4 binding sites.* Eur J Neurosci 11, 946-58.

Note: Sodium azide (NaN₃) interferes with peroxidase reactions and should not be used with peroxidase methodologies. If sodium azide is present in any steps of the staining procedure, the tissue should thoroughly be rinsed with sodium azide-free buffer before performing the peroxidase reaction.

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