Orphanin FQ/Nociceptin Data Sheet

Catalog Number: 61-354
Host: Rabbit
Product Type: Polyclonal antiserum
Species Reactivity: Rat, Human, Mouse
Immunogen Sequence: FGGFTGARKSARKLANQ Peptide sequence corresponds to amino acids 135-151 of rat, 154-170 of mouse and 130-146 of human pro-nociceptin.
Format: Whole Serum (with 0.05% sodium azide) Sent in liquid form
Applications: Immunohistochemistry 1:500

(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:


Application Notes
Immunohistochemistry: This orphanin FQ robustly stains nerve fibers in brain and spinal cord. Animals were treated with colchicines to visualize orphanin FQ-expressing cell bodies. Staining was blocked by preabsorption with the cognate peptide.

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 4oC 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.

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.

THIS PRODUCT IS A LABORATORY REAGENT AND IS NOT TO BE ADMINISTERED TO HUMANS OR TO BE USED FOR ANY DRUG PURPOSE.

ANALYTE SPECIFIC REAGENT
(Analytical and performance characteristics are not established.)