



Catalog Number:	GP10106	Host:	Guinea Pig
Product Type:	Affinity Purified	Species Reactivity:	Human; Rat; Primate; Mouse
Immunogen Sequence:	NHQLLENLEAETAPLP	Format:	PBS containing 50% glycerol. Concentration 1.0 mg/ml.
Applications:	Immunohistochemistry 1:50-500 Immunocytochemistry 1:50-500		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. <i>Avoid repeated freeze-thaw cycles.</i>		

Application Notes

Immunohistochemistry:

Image: MOR staining of Rat Dorsal Horn. *Courtesy of Dr. Louis Gendron, University of Sherbrooke.*

Protocol:

- Rats were deeply anesthetized with isoflurane and perfused through the aortic arch with 100 ml of heparin (75 U/ml of heparin in 0.9% saline) followed by 100 ml of a mixture of 3.75% acrolein and 2% PFA in 0.1 M PB, pH 7.4, and then by 300 ml of 2% PFA in the same buffer at 45 ml/min. Lumbar spinal cord was removed and postfixed in 2% PFA in 0.1 M PB for 1 h at 4°C. Sections (50 µm thick) were cut using a Vibratome and processed for MOR labeling.
- Sections were incubated in 1% sodium borohydride for 30 min and extensively rinsed in 0.1 M PB. They were then cryoprotected for 30 min in a solution consisting of 25% sucrose and 3% glycerol in 0.05 M PB and snap frozen with isopentane (-50°C) followed by liquid nitrogen.
- After being rapidly thawed in 0.1 M PB, sections were rinsed with TBS 0.1M and preincubated for 1 h at room temperature in 3% NGS diluted in TBS. They were then incubated for 36 h at 4°C in MOR antiserum diluted 1/500 in TBS containing 0.5% NGS. Sections were then rinsed twice with TBS and incubated for 1 h at room temperature with biotinylated anti-guinea pig antibody (1/400; Vector Laboratories).
- Following three 10 min washes in TBS, sections were incubated 30 min with Vectastain Elite ABC (Vector Laboratories). Sections were rinsed three times with TBS and peroxidase complex revealed for 8 minutes with DAB substrate (2.2 mg/10 ml + 0.01% H₂O₂).



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- At the end of this incubation, sections were washed twice with TBS, mounted on microscope slides, and dehydrated with ethanol.

Immunocytochemistry:

Mu opioid receptor transfected cells were processed for indirect immunofluorescence. Media was removed and cells were gently washed 3 times with serum-free media. Media was removed and cells were gently washed 3 times with serum-free media.

Following fixation process, 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.

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.

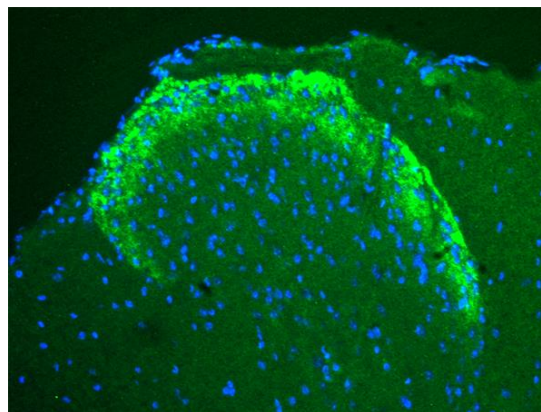


Image: MOR staining of Mouse Dorsal Horn, using a 1:50 dilution of 1:50.

Opioid Receptor Antibodies

Name	Catalog #	Type	Species	Applications	Size	Price
Delta Opioid Receptor 3-17	RA19072	Rabbit IgG	H; R	WB	100 ul	\$350
					100 ug Blocking Peptide	\$95
Delta Opioid Receptor 358-372	RA10101	Rabbit IgG	M; R	ICC	50 ul	\$145
					150 ul 20 ug Blocking Peptide	\$348
						\$95
Delta Opioid Receptor 361-372	RA19073	Rabbit IgG	H; M; R	IF; IHC; WB	100 ul	\$350
					100 ug Blocking Peptide	\$125
proDynorphin (guinea pig)	GP10109	Guinea Pig IgG	GP	IHC	50 ul	\$215
					150 ul	\$475
					20 ug Blocking Peptide	\$95
proDynorphin	GP10110	Guinea Pig IgG	M; R	IHC	50 ul	\$215
					150 ul 20 ug Blocking Peptide	\$475
						\$95
Endomorphin 1 and 2	RA21002	Rabbit IgG	H; M; Pr; R	IHC	50 ug	\$155
Endomorphin 2	RA10111	Rabbit IgG	Pr; R	IHC	100 ul	\$245
					100 ug Blocking Peptide	\$95
beta-Endorphin	RA21004	Rabbit IgG	R	IHC	50 ul	\$155

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Name	Catalog #	Type	Species	Applications	Size	Price
Kappa Opioid Receptor	RA10103	Rabbit IgG	H; M	ICC; IHC	50 ul.	\$145
					150 ul. Blocking Peptide-20 ug.	\$348
						\$95
Kappa Opioid Receptor	MO15098	Mouse IgG	H; M; R	IHC	100 ug	\$255
Mu Opioid Receptor	GP10106	Guinea Pig IgG	H; Pr; R	ICC; IHC	50 ul	\$225
					100 ul	\$375
					50 ul Blocking Peptide @ 2mgs/ml	\$95
Mu Opioid Receptor	RA10104	Rabbit IgG	H; M; Pr; R	ICC; IHC; WB	50 ul	\$155
					150 ul	\$360
					50 ul Blocking Peptide @ 2mgs/ml	\$95
phospho-Mu Opioid Receptor (Ser375)	RA18001	Rabbit IgG	H; M	ICC; WB; IP	100 ul	\$330
MOR-1C	RA20001	Rabbit IgG	M; R	IHC	50 ul	\$155
					150 ul	\$368
OPMC-L	RA26002	Rabbit IgG	H; M; R; Rb	IHC; WB	100 ul	\$375
ORL 1	RA14140	Rabbit IgG	H; M; R	IF; IHC	100 ul	\$365
					100 ul@1mg/ml Blocking Peptide	\$95
ORL 1	RA14133	Rabbit IgG	H; M; R	IF; IHC	100 ul	\$275
					100 ul@1mg/ml Blocking Peptide	\$95
Orphanin FQ/Nociceptin	RA10106	Rabbit IgG	H; M; R	IHC	50 ul	\$145
					150 ul	\$348
					50 ul. @ 2 mg/ml. Blocking Peptide	\$95
Orphanin FQ/Nociceptin	GP10107	Guinea Pig IgG	H; M; R	IHC	50 ul	\$155
					150 ul	\$348
					50 ul.@2 mg/ml. Blocking Peptide	\$95

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