



Catalog Number:	RA14139	Host:	Rabbit
Product Type:	Affinity Purified Antibody	Species Reactivity:	Human, Rat, Primate
Immunogen Sequence:	VEKQSTDSGAYSIGH Corresponding to residues 383-397 of the carboxy-terminus of rat P2X3	Format:	Affinity Purified antibody in PBS with .02% Sodium Azide. Concentration: 1.18 mg/ml.
Applications:	Immunohistochemistry 1:1000 Immunocytochemistry 1:1000 Western Blotting 1:1000		

*Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Store frozen. Aliquot as undiluted antibody and immediately place at -20°C. Antisera 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: [De Felice, Milena, Sanoja, Raul, Wang, Ruizhong, Vera-Portocarrero, Louis, Oyarzo, Janice, King, Tamara, Ossipov, Michael H., Porreca, Frank. Engagement of descending inhibition from the rostral ventromedial medulla protects against chronic neuropathic pain.](#) PAIN, 152 (12), p.2701-2709, Dec 2011.

[B. Huang, X. Zhao, L.-B. Zheng, L. Zhang, B. Nia. Different expression of tissue inhibitor of metalloproteinase family members in rat dorsal root ganglia and their changes after peripheral nerve injury.](#) Neuroscience, Volume 193, 13 October 2011, Pages 421-428.

[Anna M.W. Taylor and Alfredo Ribeiro-da-Silva. GDNF levels in the lower lip skin in a rat model of trigeminal neuropathic pain: Implications for nonpeptidergic fiber reinnervation and parasympathetic sprouting.](#) PAIN Volume 152, Issue 7, July 2011, Pages 1502-1510. doi:10.1016/j.pain.2011.02.035.

[Jennifer C. Peleshok, Alfredo Ribeiro-da-Silva. Delayed reinnervation by nonpeptidergic nociceptive afferents of the glabrous skin of the rat hindpaw in a neuropathic pain model.](#) The Journal of Comparative Neurology. Volume 519, Issue 1, pages 49–63, 1 January 2011.

Application Notes

Immunohistochemistry:

Antiserum was used on perfusion fixed tissue. Perfusion: 1) calcium-free Tyrode's solution, 2) paraformaldehyde-picric acid 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.

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Immunocytochemistry:

P2X3 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:

Cell membrane extracts were examined by electrophoresis (8% acrylamide) with SDS under reducing conditions and transferred to a nylon membrane. Membranes were blocked for 1 hour at 4°C with 0.1% Tween 20 and 2.5% milk powder (w/v) in PBS. Membranes were incubated with primary antiserum (1:500 in the same buffer overnight at 4°C. Membranes were rinsed and incubated with horseradish peroxidase conjugated secondary antibody for 1 hour at room temperature. Following rinsing, the membranes were processed using enhanced chemiluminescence.

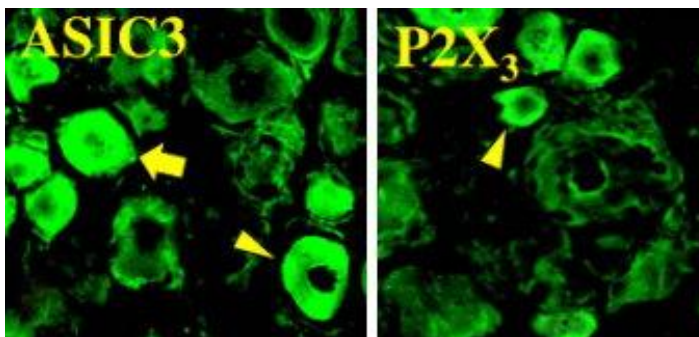
Note: Sodium azide (NaN₃) interferes with peroxidase reactions and should not be used with peroxidase methodologies. If

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. See: [For Western Blotting Data and Methods, please see reference:](#)

[Nucleic Acids Research, 2003, Vol. 31, No. 8 2117-2126.](#)

Images: [ASIC3](#) (Dilution 1:10) and P2X3 (Dilution 1:500) staining of rat Dorsal Root Ganglia (DRGs) of cisplatin-treated animals. After dilution in 0.1 M phosphate-buffered saline (PBS) containing 1.5% normal goat serum and 0.3% Triton X-100 (Sigma), DRG sections were incubated with either guinea pig polyclonal antiserum against synthetic rat ASIC3 and rabbit polyclonal antiserum against synthetic rat P2X3 (1:500; Neuromics). The sections for ASIC3 were reacted with reagents for 2 days at room temperature and others at 40C. After being rinsed with 0.1 M PBS, the sections were reacted in PBS with fluorescein-isothiocyanate (FITC)-conjugated goat anti-guinea pig or - rabbit IgG antibody (Vector Laboratories, Burlingame, CA, USA) at a concentration of 1:100. After being rinsed with 0.1 M PBS, the sections were cover-slipped in mounting medium (Immunon, Pittsburgh, PA, USA) and examined under a fluorescence microscope equipped with a digital camera. PAIN 149 (2010) 393–405.

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Related Antibodies

Name	Catalog #	Type	Species	Applications	Size	Price
ACTH	RA21005	Rabbit IgG	H; R	ICC; IF; WB	50 ug	\$155
APJ (Apelin Receptor)	RA14111	Rabbit IgG	R	ICC; IHC	50 ul 100 ul 100 ug Blocking Peptide	\$190 \$345 \$95
APJ (Apelin Receptor)	MO15011	Mouse IgG	H	IHC	500 ug	\$325
ASIC Beta	GP10101	Guinea Pig	R	IHC	50 ul 150 ul 20 ug Blocking Peptide	\$175 \$395 \$95
ASIC 2B 15-26	RA14129	Rabbit IgG	H; R	IHC	100 ul	\$250
ASIC 3	GP14105	Guinea Pig IgG	R	ICC; IHC	50 ul 150 ul	\$190 \$456
Alpha 2a Adrenergic Receptor	RA14110	Rabbit IgG	R	IHC	50 ul 150 ul 100 ug Blocking Peptide	\$190 \$456 \$95
Alpha 2c Adrenergic Receptor	RA19064	Rabbit IgG	H; R	ICC; IHC; WB	150 ul 50 ul 100 ug Blocking Peptide	\$456 \$190 \$95
beta-Endorphin	RA21004	Rabbit IgG	R	IHC	50 ul	\$155
beta-Lipotropin	RA21003	Rabbit IgG	H; M; R	IHC; WB	50 ul	\$155
Bradykinin Receptor B2	RA14137	Rabbit IgG	R	IF; IHC	100 ul 100 ug Blocking Peptide	\$250 \$95
CaMKII	RA18006	Rabbit IgG	H; M; Pr; R	WB	100 ul	\$350
phospho-CaMKII (Thr286)	RA18007	Rabbit IgG	H; M; Pr; R	IHC; WB	100 ul	\$370
Calbindin	MO20016	Mouse IgG	H	IHC	100 ug	\$175
Calmodulin	MO20017	Mouse IgG	H	IHC	100 ug	\$175
c-Jun	SP15102	Sheep IgG	H	WB	100 ug	\$265
c-Jun	RA18019	Rabbit IgG	H; M; Pr; R	IHC; WB; IP	100 ul	\$175
c-Kit/CD117	RA14132	Rabbit IgG	H; M; R	IF; IHC; FC	100 ul	\$350
CCK A Receptor	RA15049	Rabbit IgG	H; M; R	IHC; WB	50 ug 100 ul @ 2 mgs/ml	\$245 \$95

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CGRP	CH14100	Chicken IgY	R	IHC	50 ul 150 ul	\$215 \$475
Name	Catalog #	Type	Species	Applications	Size	Price
CGRP	RA24112	Rabbit IgG	H; R	IF; IHC	100 ul	\$265
COX-1	MO15113	Mouse IgG	H	WB; FC	100 ug	\$255
COX-2	GT15206	Goat IgG	H; M	IHC; WB; FC; E	100 ug	\$365
COX-2	RA18005	Rabbit IgG	H; M	IHC; WB; FC	100 ul	\$365
Delta Opioid Receptor 3-17	RA19072	Rabbit IgG	H; R	WB	100 ul 100 ug Blocking Peptide	\$350 \$95
Delta Opioid Receptor 358-372	RA10101	Rabbit IgG	M; R	ICC	50 ul 150 ul 20 ug Blocking Peptide	\$145 \$348 \$95
Delta Opioid Receptor 361-372	RA19073	Rabbit IgG	H; M; R	IF; IHC; WB	100 ul 100 ug Blocking Peptide	\$350 \$125
Desert Hedgehog	GT15067	Goat IgG	M	IHC; WB; E	100 ug	\$365
Endomorphin 1	RA21001	Rabbit IgG	H; M; Pr; R	IHC	50 ug	\$155
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 100 ug Blocking Peptide	\$245 \$95
Enkephalin, pre-pro (ppENK)	RA14124	Rabbit IgG	M; R	IHC	50 ul	\$175
phosphoERK1/2	RA15002	Rabbit IgG	H; M; R	IHC; WB	100 ug	\$325
phosphoERK1/2 (Rabbit MAb)	MO15027	Rabbit IgG	H; M; R	IHC; WB	500 ug	\$325
Leu-Enkephalin	RA21007	Rabbit IgG	R	ICC; IF	50 ug	\$155
Met-Enkephalin	RA21006	Rabbit IgG	R	ICC; IF	50 ug	\$155
FMRamide	RA20002	Rabbit IgG	R	IHC	50 ul 150 ul	\$115 \$276
gp130/CD130	GT15072	Goat IgG	M	WB; E	100 ug	\$345
gp130/CD130	MO15024	Rat IgG	M	IHC; WB; FC	100 ug	\$255

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gp130/CD130-Phycoerythrin-Labeled	FC15014	Mouse IgG	H	FC		100 Tests	\$235
Name	Catalog #	Type	Species	Applications		Size	Price
GluR2/AMPA2	RA30012	Rabbit IgG	H	IHC; WB		50 ug	\$425
GluR4/AMPA4	RA30044	Rabbit IgG	Ch; H; M; Pr; R	IHC; WB; IP		50 ug	\$425
GluR4/AMPA4	GT41012	Goat IgG	B; H; M; R	IHC; WB; E		100 ug	\$250
						100 ug Blocking Peptide	\$145
Kv3.1-Subunit (pSer503)	RA25020	Rabbit IgG	R	IF; IHC; WB		100 ul	\$295
Kappa Opioid Receptor	RA10103	Rabbit IgG	H; M	ICC; IHC		50 ul.	\$145
						150 ul.	\$348
						Blocking Peptide-20 ug.	\$95
Kappa Opioid Receptor	MO15098	Mouse IgG	H; M; R	IHC		100 ug	\$255
mGluR1 alpha	RA19065	Rabbit IgG	R	ICC; IHC; WB		100 ul	\$215
mGluR2	RA13101	Rabbit IgG	R	WB		100 ul	\$215
mGluR2/3	RA13102	Rabbit IgG	M; R	ICC; IHC; WB		100 ul	\$325
mGluR3	RA13103	Rabbit IgG	R	IHC; WB		100 ul	\$215
mGluR5	RA16100	Rabbit IgG	M; R	ICC; IHC; WB		50 ug	\$375
						100 ug Blocking Peptide	\$225
mGluR5	MO15118	Mouse IgG	H	IHC		100 ug	\$225
mGluR5b	RA13106	Rabbit IgG	M; R	WB		100 ul	\$215
mGluR6	RA13105	Rabbit IgG	M; R	ICC; IHC; WB		100 ul	\$295
						50 ul @ 1 mgs/ml	\$175
mGluR6/7	RA25041	Rabbit IgG	Ch; H; M; Pr; R	ICC; IHC; WB		500 ul	\$365
MOR-1C	RA20001	Rabbit IgG	M; R	IHC		50 ul	\$155
						150 ul	\$368
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

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						50 ul Blocking Peptide @ 2mgs/ml	\$95
Name	Catalog #	Type	Species	Applications	Size	Price	
Mu Opioid Receptor	RA14138	Rabbit IgG	R	IHC; WB	100 ul	\$325	
NPY Y1 Receptor	RA24506	Rabbit IgG	H; M; R	ICC; IHC; WB	100 ul	\$395	
NPY Y2 Receptor	RA14112	Rabbit IgG	M; R	IF; IHC; WB	50 ul 100 ul 50 ul. @ 2 mgs/ml	\$210 \$380 \$95	
NPY Y2 Receptor-C/N Terminus	RA14136	Rabbit IgG	M; R	IHC	50 ul 100 ul 100 ug Blocking Peptide	\$210 \$380 \$95	
ppNPY	GP14107	Guinea Pig IgG	M; R	IHC	50 ul 150 ul 20 ug Blocking Peptide	\$190 \$456 \$95	
Neurokinin-1 (NK 1) Receptor	RA25003	Rabbit IgG	H; R	IHC; WB; FC	100 ul	\$245	
Neurokinin-1 (NK 1) Receptor	RA25001	Rabbit IgG	M; R	IHC	100 ul	\$245	
Neurokinin-3 (NK 3) Receptor	RA25002	Rabbit IgG	M; R	IHC	150 ul	\$285	
nNOS (Neuronal Nitric Oxide Synthase)	RA19011	Rabbit IgG	H	WB	100 uL	\$250	
nNOS (Neuronal Nitric Oxide Synthase)	MO20029	Mouse IgG	H	IHC	100 ul	\$155	
Neuropeptide FF1 Receptor	RA19017	Rabbit IgG	H; M; R	IHC; WB	100 ug	\$225	
Neuropeptide FF2 Receptor	RA19018	Rabbit IgG	H	WB	100 ug	\$225	
Neuropeptide Q/NPQ	RA14131	Rabbit IgG	H; R	IHC	100 ul	\$250	
Neuropeptide Q2/NPQ2	GP14109	Guinea Pig IgG	R	IHC	100 ul	\$250	
Neuropeptide Q3/NPQ3	RA14134	Rabbit IgG	R	IHC	100 ul	\$250	
Neurotensin Receptor 1 (NTS1)	CH14110	Chicken IgY	R	IHC	50 ul 100 ul 100 ug Blocking Peptide	\$190 \$345 \$95	
Neurotensin Receptor 1 (NTS1)	GP14020	Guinea Pig IgG	R	ICC; IHC	50 ul 100 ul 100 ug Blocking Peptide	\$190 \$345 \$95	
Neurotensin Receptor 2 (NTS2)	RA17100	Rabbit IgG	R	ICC; IHC	100 ul	\$315	

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Neurotensin Receptor 3 (NTS3)/Sortilin	GT15237	Goat IgG	H	IHC; WB; E; NB	100 ug	\$365
Neurotensin Receptor 3 (NTS3)/Sortilin	GT15238	Goat IgG	M	IHC; WB; E; NB	100 ug	\$365
Name	Catalog #	Type	Species	Applications	Size	Price
ORL 1	RA14140	Rabbit IgG	H; M; R	IF; IHC	100 ul 100 ul@1mg/ml Blocking Peptide	\$365 \$95
ORL 1	RA14133	Rabbit IgG	H; M; R	IF; IHC	100 ul 100 ul@1mg/ml Blocking Peptide	\$275 \$95
Orphanin FQ/Nociceptin	GP10107	Guinea Pig IgG	H; M; R	IHC	50 ul 150 ul 50 ul.@2 mg/ml. Blocking Peptide	\$155 \$348 \$95
Orphanin FQ/Nociceptin	RA10106	Rabbit IgG	H; M; R	IHC	50 ul 150 ul 50 ul. @ 2 mg/ml. Blocking Peptide	\$145 \$348 \$95
Oxytocin	RA24604	Rabbit IgG	R	IHC	100 ul	\$275
p11 (Calpactin I Light Chain / Annexin II)	CH14101	Chicken IgY	R	IHC	100 ul	\$250
p38 MAPK	RA30036	Rabbit IgG	H; M; R	IHC; WB	50 ug	\$365
P2X1	RA10107	Rabbit IgG	R	ICC; IHC	50 ul 150 ul 20 ug Blocking Peptide	\$145 \$348 \$95
P2X2	GP14106	Guinea Pig IgG	H; R	ICC; IHC; WB	50 ul 150 ul 100 ug Blocking Peptide	\$155 \$348 \$95
P2X2	RA10108	Rabbit IgG	H; Pr; R	ICC; IHC; WB	50 ul 150 ul 100 ug Blocking Peptide	\$155 \$348 \$95
P2X3	RA10109	Rabbit IgG	H; Pr; R	ICC; IHC; WB; FC	50 ul 150 ul 100 ug Blocking Peptide	\$145 \$348 \$95
P2X3-Pure	RA14139	Rabbit IgG	H; Pr; R	ICC; IHC; WB; FC	100 ul 100 ug Blocking Peptide	\$350 \$95
P2X3	GP10108TSA	Guinea Pig IgG	R	IHC	100 ul 100 ug Blocking Peptide	\$190 \$95
P2Y2	RA14103	Rabbit IgG	H; M; R	IHC; WB	100 ul 50 ug Blocking Peptide	\$395 \$95
PAP (Prostatic Acid Phosphatase)	CH23019	Chicken IgY	M	IHC	200 ul	\$295
P2YR8	RA30005	Rabbit IgG	H	IHC	50 ug	\$425

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PGP9.5	MO20002	Mouse IgG	H; M; R	IHC; WB	100 ul	\$395
PGP9.5 (Clone: 31A3)	MO25010	Mouse IgG	H; M; R	IHC; WB; E	100 ul	\$475
PGP9.5 175-191	GP14104	Guinea Pig IgG	H; M; R	IHC	50 ul 150 ul 20 ug Blocking Peptide	\$175 \$395 \$95
Name	Catalog #	Type	Species	Applications	Size	Price
PGP9.5	RA12103	Rabbit IgG	H; M; P; R	IHC; WB	50 ul 150 ul	\$145 \$348
PHF-2 (PDH finger protein 2)	RA19024	Rabbit IgG	H	WB	100 ug	\$225
proDynorphin (guinea pig)	GP10109	Guinea Pig IgG	GP	IHC	50 ul 150 ul 20 ug Blocking Peptide	\$215 \$475 \$95
proDynorphin	GP10110	Guinea Pig IgG	M; R	IHC	50 ul 150 ul 20 ug Blocking Peptide	\$215 \$475 \$95
proNeurokinin B (proNKB or P2)	RA25008	Rabbit IgG	H; M; Pr; R	IHC	100 ul	\$225
phospho-Mu Opioid Receptor (Ser375)	RA18001	Rabbit IgG	H; M	ICC; WB; IP	100 ul	\$330
mRELM alpha	RA19062	Rabbit IgG	H; M	WB	100 ul	\$175
Somatostatin Receptor-1-SSTR1	RA25004	Rabbit IgG	H; M; R	ICC; IHC	100 ul	\$255
Somatostatin Receptor-2-SSTR2	MO15109	Mouse IgG	H	ICC; IHC; FC	100 ug	\$255
Somatostatin Receptor-2-SSTR2	RA25005	Rabbit IgG	H; M; R	IHC; WB	100 ul	\$255
Substance P	MO15094	Mouse IgG	H; M; R	IHC; E	100 ug 20 ug Blocking Peptide	\$255 \$95
Substance P-Pure	GP14110	Guinea Pig IgG	H; M; R	IHC	100 ul 20 ug Blocking Peptide	\$350 \$95
Substance P	GP14103	Guinea Pig IgG	H; M; R	IHC	50 ul 150 ul 20 ug Blocking Peptide	\$175 \$395 \$95
Substance P	RA20064	Rabbit IgG	R	IHC	100 ul	\$240
Synaptotagmin 1	MO15099	Mouse IgG	Ch; H; M; R	IHC; WB; IP	100 ug	\$255
TGF-beta3	GT15074	Goat IgG	H	IHC; WB; E; NB	100 ug	\$365
TNF alpha	GT15064	Goat IgG	R	IHC; WB; E	100 ug	\$365
TNF alpha	GT15113	Goat	M	ICC; IHC;	100 ug	\$365

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		IgG		WB; E		
TREK 1	RA25018	Rabbit IgG	H	WB	100 ul	\$245
TRPA1	RA14135	Rabbit IgG	R	IHC	100 ul	\$275
TRPM2	RA25034	Rabbit IgG	M; R	IHC; WB	100 ul	\$265
Name	Catalog #	Type	Species	Applications	Size	Price
TRPM6 (Chak2)	GP14108	Guinea Pig IgG	M; R	IHC	100 ul	\$295
VR1 (TRPV1)	GT15129	Goat IgG	M; R	IHC; WB	100 ug	\$365
VR1 C-Terminus (TRPV1) - mouse specific	RA14113	Rabbit IgG	M	IHC; WB	50 ul 100 ul 100 ug Blocking Peptide	\$225 \$395 \$95
VR1 C-terminus (TRPV1)	GP14100	Guinea Pig IgG	H; R	IHC	50 ul 150 ul 100 ug Blocking Peptide	\$215 \$475 \$95
VR1 N-Terminus (TRPV1)	RA10110	Rabbit IgG	R	ICC; IHC; WB; IP	50 ul 150 ul 100 ug Blocking Peptide	\$215 \$456 \$95
VR like-3 (TRPV3)	GT15180	Sheep IgG	H; M; R	IHC	100 ug	\$365

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