



Catalog Number:	RA14103	Host:	Rabbit
Product Type:	Affinity Purified	Species Reactivity:	Human, Mouse, Rat
Immunogen Sequence:	CRRTESTPAGSENTKDTRL Corresponding to residues 360-377 of the carboxy-terminus of human P2Y2	Format:	Liquid -Concentration of 1 mg/ml.
Applications:	Immunohistochemistry 1:100 to 1:800 Western Blotting 1:1000		
	Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Store frozen. Aliquot as undiluted antisera 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:	<p>Oleg Zaika, Jie Zhang, and Mark S. Shapiro. Functional role of M-type (KCNQ) K+ channels in adrenergic control of cardiomyocyte contraction rate by sympathetic neurons. J. Physiol., May 2011; 589: 2559 - 2568.</p> <p>Patrizia Rubini, Javorina Milosevic, Johannes Engelhardt, Mahmoud Al-Khrasani, Heike Franke, Attila Heinrich, Beata Sperlagh, Sigrid C. Schwarz, Johannes Schwarz, Wolfgang Nörenberg and Peter Illes. Increase of intracellular Ca2+ by adenine and uracil nucleotides in human midbrain-derived neuronal progenitor cells. Cell Calcium. Volume 45, Issue 5, May 2009, Pages 485-498.</p> <p>Sylvia Sarman: Jorge Mancini: Ingeborg van der Ploeg: J. Oscar Croxatto: Anders Kvanta: Juan E. Gallo. Involvement of Purinergic P2 Receptors in Experimental Retinal Neovascularization. Current Eye Research. 10.1080/02713680701885470</p>		

Application Notes

Immunocytochemistry

1. Perfuse rats with 4% paraformaldehyde.
2. dissected DRGs and postfixed them in the same fixative for 1 hour RT.
3. Placed DRGs into a 10% sucrose/PBS solution for 2 days (did 3 changes of sucrose solution).
4. Mounted DRGs into OCT, froze them and cut 10 micron cryostat sections.
5. Applied primary P2Y2 antibody (use antibody diluent which has 0.1% Triton X-100) and incubated overnight at 4°C.
6. Rinsed slides in PBS at RT (3 x 15 washes).
7. Applied secondary antibodies conjugated with fluorescent tags (Cy2, Cy3, etc.) and incubated for 1 hour at RT.
8. Repeat step 6.
9. Coverslipped using [iBright \(Catalog#: SF40000\) plus anti-fade mounting medium.](#)
10. Look at slides under the fluorescence microscope.

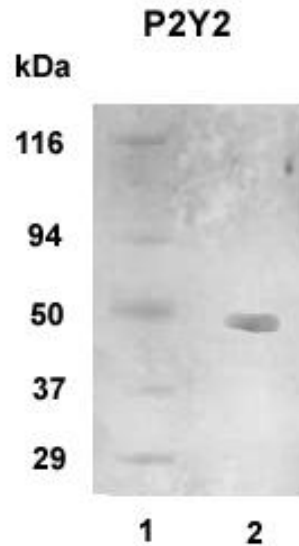
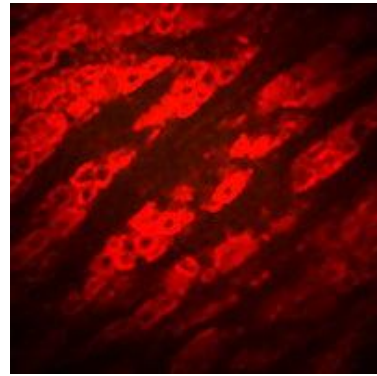
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Image: P2Y2 staining of rat DRG



Western blot detection of P2Y2 in 20 ug of human brain lysate (lane 2) with P2Y2 polyclonal at 1:1000 dilution followed by AP-conjugated secondary at 1:5000 dilution. MW marker in Lane 1.

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