NEUROMICS

P2X1 Datasheet

Catalog Number:	RA10107	**Host:**	Rabbit
Product Type:	Polyclonal antiserum	**Species Reactivity:**	Rat
Immunogen Sequence:	GLQENMRTS Corresponding to residues 364-372 of the rat P2X1	**Format:**	Whole Serum (with 0.05% sodium azide) Sent in liquid form

Applications: Immunohistochemistry 1:1000

Immunocytochemistry 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 -20ºC. 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 -20ºC. Repeated freeze/thaw cycles compromise the integrity of the antiserum.

References:

Valera, S., Hussy, N., Evans, R. J., Adami, N., North, R.. A., Surprenant, A., and Buell, G. (1994). *A new class of ligand-gated ion channel defined by P2X receptor for extracellular ATP [see comments].* Nature *371*, 516-9.

Vulchanova, L., Arvidsson, U., Riedl, M., Wang, J., Buell, G., Surprenant, A., North, R. A., and Elde, R. (1996). *Differential distribution of two ATP-gated channels (P2X receptors) determined by immunocytochemistry.* Proc Natl Acad Sci U S A *93,* 8063-7.

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 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.

Immunocytochemistry: P2X1 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.

*Not*e: Sodium azide (NaN_3) 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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