Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:	
For Research Use O	nly. Not for Use in	Diagnostic Proce	edures.				
#				3 Trask L	ane Danvers Ma	ssachusetts 01923 USA	
H					1105.	cellsignal.com	
∞					Web:	info@cellsignal.com	
#13809					Support:	877-678-TECH (8324)	
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com	
ore							
୍ଦୁ P2X7 Re te mAb	ceptor (E1	E8T) Rabbi	it				

WB, IP	Heactivity:	Endogenous	MW (KDA): 78	Rabbit IgG	#Q99572	5027	
Product Usage Information	We	plication estern Blotting munoprecipitation			Dilution 1:1000 1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	itivity P2X	7 Receptor (E1E8T) Rabbit mAb rec	cognizes endogenous le	vels of total P2X7 rece	ptor protein.	
Source / Purificat				nunizing animals with a s P2X7 receptor protein.	synthetic peptide corre	sponding to	
Background	infla gene simi P2X dom glyc perij hem Puri med stud neu neu 8). A	 P2X purinergic receptors are ATP-gated ion channels involved in physiological processes that include inflammation, afferent sensory signaling, and sympathetic motor nerve activity. Seven different vertebrate genes (<i>P2RX1-P2RX7</i>) encode for individual receptor protein subunits (1). All P2X subunit proteins share similar protein domain structure, but can differ in overall protein length from 384 to 595 amino acids. Each P2X subunit is composed of amino- and carboxy-terminal intracellular domains, two transmembrane domains, and a large extracellular loop that contains ten evenly spaced cysteines and multiple glycosylation sites (2). P2X receptors are found in a variety of cell types and tissues, including central and peripheral nervous system neurons and glial cells, autonomic and sensory neurons, bone, muscle, and hematopoietic tissues (1). Purinoceptor 7 (P2X7) is a homotrimer involved in diverse cellular responses, including inflammation mediated by phospholipase A2, phospholipase D, MAP kinase, and NF-κB activation (3,4). Research studies suggest that P2X7 receptors promote apoptosis by regulating release of IL-1β in neurodegenerative disorders associated with inflammation (5). Microglial P2X7 receptors may contribute to neuroinflammatory responses in the ATP-rich site of neuronal injury (6) and mediate inflammatory pain (7, 8). Association studies demonstrate a possible causal link between <i>P2RX7</i> gene polymorphisms and susceptibility to bipolar affective disorder and major depressive disorder (9,10). 					
Background Refe	2. Va 3. N 4. SI 5. Be 6. Va 7. C 8. D 9. Ba	kaper, S.D. et al. (20 ernardino, L. et al. (20 olonté, C. et al. (200 hessell, I.P. et al. (20 ell'Antonio, G. et al.	 Nature 371, 51 renant, A. (2000) D10) FASEB J 24 2008) J Neuroch OUT Drug Tar Curr Drug Tar Curn Drug Tar Curo Dain 114, 3 (2002) Neurosci Am J Med Ge 	6-9. Annu Rev Pharmacol T 337-45. em 106, 271-80. rgets CNS Neurol Disord 86-96. Lett 327, 87-90. net B Neuropsychiatr G	2, 403-12.		
Species Reactivit	y Spec	ies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buff		ORTANT: For wester Tween® 20 at 4°C		membrane with diluted ing, overnight.	primary antibody in 59	6 w/v BSA, 1X TBS,	
Applications Key	WB:	Western Blotting IF	P: Immunoprecipi	itation			

1/1/24, 8:51 AM	P2X7 Receptor (E1E8T) Rabbit mAb (#13809) Datasheet Without Images Cell Signaling Technology
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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