e at -20C	VGLUT2 (D4E3U) Rabbit mAb	T C	echnology®
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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 65-70	Source/Isotype: Rabbit IgG	UniProt ID: #Q9P2U8	Entrez-Gene Id: 57084		
Product Usage Information	Apr We: Imn	Dication Stern Blotting hunoprecipitation			Dilution 1:1000 1:50			
Storage	Supp 0.02	blied in 10 mM sodiu % sodium azide. Ste	um HEPES (pH 7 ore at –20°C. <i>Do</i>	7.5), 150 mM NaCl, 100 not aliquot the antibody	μg/ml BSA, 50% glyce ν	erol and less than		
Specificity / Sensi	tivity VGL	VGLUT2 (D4E3U) Rabbit mAb recognizes endogenous levels of total VGLUT2 protein.						
Source / Purificati	on Mon resid	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human VGLUT2 protein.						
Background		Glutamatergic neurons release glutamate, the most common excitatory neurotransmitter. Their synaptic vesicles are filled with glutamate by vesicular glutamate transporters, VGLUTs (1). VGLUT1, also called solute carrier family 17 member 7 (SLC17A7), was first identified as an inorganic phosphate transporter (2). Despite the absence of homology with neurotransmitter transporters, VGLUT1 was later demonstrated to be a glutamate transporter (1) specific to glutamate uptake into synaptic vesicles, but define different neuronal subpopulations (4,5). VGLUT1 and VGLUT2 are the most abundant isoforms. VGLUT1 is expressed in the cortex, hippocampus, and cerebellar cortex, while VGLUT2 is mostly found in the thalamus (6,7). VGLUT3 is expressed in hair cells of the auditory system (8).						
Background Refe	r ences 1. Be 2. Ni 3. Ta 4. Fr 5. Fr 6. He 7. Ka 8. Se	ellocchio, E.E. et al. , B. et al. (1996) <i>J N</i> kamori, S. et al. (20 emeau, R.T. et al. (2 emeau, R.T. et al. (2 erzog, E. et al. (2003 eneko, T. and Fujiya eal, R.P. et al. (2008	(2000) Science : leurochem 66, 2 (00) Nature 407, 2001) Neuron 31 2002) Proc Natl / 1) J Neurosci 21 ma, F. (2002) Ne) Neuron 57, 263	289, 957-60. 227-38. 189-94. , 247-60. Acad Sci U S A 99, 1448 , RC181. eurosci Res 42, 243-50. 3-75.	38-93.			
Species Reactivity	y Speci	es reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buff	er IMPO milk, 1	RTANT: For wester 1X TBS, 0.1% Twee	n blots, incubate en® 20 at 4°C wi	membrane with diluted th gentle shaking, overn	primary antibody in 5% ight.	∕₀ w/v nonfat dry		
Applications Key	WB:	Western Blotting IP	: Immunoprecipi	tation				
Cross-Reactivity F	Key H: hu X: Xe GP: C	man M : mouse R: r nopus Z: zebrafish Guinea Pig Rab: rab	at Hm: hamster B: bovine Dg: de bbit All: all specie	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevi es expected	/i: mink C: chicken Dr siae Ce: C. elegans H	n: D. melanogaster r: horse		
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VGLUT2 (D4E3U) Rabbit mAb (#14487) Datasheet Without Images Cell Signaling Technology

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