e at -20C	CART (D6M2M) Rabbit mAb			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask Lane Danvers	Massachusetts 01923 USA	

Applications: WB, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 4-12	Source/Isotype: Rabbit IgG	UniProt ID: #Q16568	Entrez-Gene Id: 9607	
Product Usage Information	We	plication estern Blotting munohistochemistry ((Paraffin)		1	Dilution .:1000 .:75	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity / Sens		· · ·	bit mAb recognizes endogenous levels of total CART protein. Staining has been carcinoma, the specificity of which is unknown.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to the full-length human CART protein.					
Background		Cocaine- and amphetamine-regulated transcript (CART) peptides are neurotransmitters of 39 and 47 amino acids that are involved in a variety of physiological processes. The CART precursor, a polypeptide of 116 residues, requires prohormone/proprotein convertase-mediated endoproteolytic cleavage to produce the two active peptides (1). CART peptides are found in several neuroendocrine tissues such as the brain, pituitary, adrenals, and pancreas (2). Hypothalamic CART is regulated by leptin, and plays a role in appetite and feeding behavior (3). Mesolimbic CART is regulated by CREB and may play a role in drug abuse behaviors by mediating some of CREB effects (4). Pancreatic CART is found in islet endocrine cells and parasympathetic and sensory nerves. It inhibits glucose-stimulated insulin secretion and has been found to be up-regulated in beta cells in animal model of diabetes (5). A missense mutation in the corresponding <i>CART</i> gene can correlate with susceptibility to obesity and reduced resting energy expenditure (6).					
Background Refe	2. H 3. T 4. K 5. W	 Stein, J. et al. (2006) <i>Peptides</i> 27, 1919-25. Hunter, R.G. and Kuhar, M.J. (2003) <i>Curr Drug Targets CNS Neurol Disord</i> 2, 201-5. Thim, L. et al. (1998) <i>Int J Biochem Cell Biol</i> 30, 1281-4. Kuhar, M.J. et al. (2005) <i>AAPS J</i> 7, E259-65. Wierup, N. and Sundler, F. (2006) <i>Peptides</i> 27, 2031-6. del Giudice, E.M. et al. (2001) <i>Diabetes</i> 50, 2157-60. 					
Species Reactivit	ty Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buf		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	ications Key WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivity	X: X	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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