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## CART (D6M2M) Rabbit mAb



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Applications: W, IHC-P	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 4-12	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q16568	Entrez-Gene Id: 9607		
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemistry (Paraffin)			<b>Dilution</b> 1:1000 1:75			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and les 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				rol and less than		
Specificity/Ser	nsitivity	CART (D6M2M) Rabbit mAb recognizes endogenous levels of total CART protein. Staining has been observed in prostate carcinoma, the specificity of which is unknown.						
Source / Purifi	cation	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 R	eferences	1. Stein, J. et al. (2006) <i>Peptides</i> 27, 1919-25. 2. Hunter, R.G. and Kuhar, M.J. (2003) <i>Curr Drug Targets CNS Neurol Disord</i> 2, 201-5. 3. Thim, L. et al. (1998) <i>Int J Biochem Cell Biol</i> 30, 1281-4. 4. Kuhar, M.J. et al. (2005) <i>AAPS J</i> 7, E259-65. 5. Wierup, N. and Sundler, F. (2006) <i>Peptides</i> 27, 2031-6. 6. del Giudice, E.M. et al. (2001) <i>Diabetes</i> 50, 2157-60.						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot I	Buffer	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.				n 5% w/v BSA, 1X		
Applications K	ley	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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