Revision 1				
ក្តុ CAD (D2T8H) Rabbit mAb		Cell Signaling		
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#93925	Support: Web:	877-678-TECH (8324)		
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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 240	Source/Isotype: Rabbit IgG	UniProt ID: #P27708	Entrez-Gene Id 790		
Product Usage Information		Application Western Blotting Immunoprecipitation			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 aliguot the antibody.						
Specificity/Sensitivity		CAD (D2T8H) Rabbit mAb recognizes endogenous levels of total CAD protein.						
Source / Purifi	/ Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide correspondin residues near the carboxy terminus of human CAD protein.							
Background		enzymatic activities: glu transcarbamoylase, and monophosphate, a con synthesis (1). In resting synthesis. As proliferati resulting in CAD translo and phosphorylated at studies have shown inco	utamine amidotra d dihydroorotase. nmon precursor o cells, CAD is local ing cells enter S p ocation to the nuc Ser1406 by PKA, n reased expression acological inhibito	s of pyrimidine nucleotic nsferase, carbamoyl-pho Thus, the enzyme conve f all pyrimidine bases, ar ized mainly in the cytop nase, MAP Kinase (Erk1/č leus. As cells exit S phase returning the pathway to of CAD in several types ors such as PALA. Furthe cate cancer relapse (3).	psphate synthetase erts glutamine to ur nd it is necessary fo lasm where it carrie 2) phosphorlyates C e, CAD is dephosph o basal activity (2). V o of cancer, prompti	, aspartate ridine r nucleic acid es out pyrimidine CAD at Thr456, orylated at Thr456 (arious research ng the		
Background Re	eferences	1. Coleman, P.F. et al. (1977) <i>J Biol Chem</i> 252, 6379-85. 2. Sigoillot, F.D. et al. (2005) <i>J Biol Chem</i> 280, 25611-20. 3. Morin, A. et al. (2012) <i>FASEB J</i> 26, 460-7.						
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	ern Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BS. TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X			
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R:	Rat					
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