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## Phospho-CaMKII (Thr286) (D21E4) Rabbit



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Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60, 50	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q13554, #Q13557, #Q13555, #Q9UQM7	<b>Entrez-Gene Id:</b> 816, 817, 818, 815
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
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/Sensitivity		Phospho-CaMKII (Thr286) (D21E4) Rabbit mAb recognizes endogenous levels of CamKII-α protein only when phosphorylated at Thr286. This antibody also recognizes endogenous levels of CamKII-β and CamKII-γ protein only when phosphorylated at Thr287.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr287 of human CamKII- $\beta$ protein.				
Background		in neural synaptic stim domains. Ca <sup>2+</sup> /calmoc activates the kinase (3 kinase constitutively a through PP1/PKA. PP1	nulation and T cell r lulin binding to the ). The activated Cal ctive (3). The threou (protein phosphat	lcium/calmodulin-activa eceptor signaling (1,2). ( CaMKII regulatory dom. /KII further autophosph nine phosphorylation sta ase 1) dephosphorylates KII (Thr286) dephospho	CaMKII has catalyti ain relieves autoinl norylates at Thr286 ate of CaMKII can b phospho-CaMKII	c and regulatory hibition and to render the regulated at Thr286. PKA
Background References		1. Hughes, K. et al. (2001) <i>J Biol Chem</i> 276, 36008-13. 2. Barria, A. et al. (1997) <i>Science</i> 276, 2042-5. 3. Barkai, U. et al. (2000) <i>Mol Endocrinol</i> 14, 554-63. 4. Makhinson, M. et al. (1999) <i>J Neurosci</i> 19, 2500-10.				
Species Reactiv	ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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.				
Applications Ke	у	W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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