## GAPDH (14C10) Rabbit mAb (HRP Conjugate)



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Applications: W	<b>Reactivity:</b> H M R Mk B Pg	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 37	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P04406	Entrez-Gene Id: 2597
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCI, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.				
Specificity/Sensitivity		GAPDH (14C10) Rabbit mAb (HRP Conjugate) detects endogenous levels of total GAPDH protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide near the carboxy terminus of human GAPDH. The antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups.				
Description		This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The unconjugated GAPDH (14C10) Rabbit mAb #2118 reacts with human, mouse, rat and monkey GAPDH. CST expects that GAPDH (14C10) (HRP conjugate) #3683 will also recognize GAPDH in these species.				
Background		Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. Though differentially expressed from tissue to tissue (1), GAPDH is thought to be a constitutively expressed housekeeping protein. For this reason, GAPDH mRNA and protein levels are often measured as controls in experiments quantifying specific changes in expression of other targets. Recent work has elucidated roles for GAPDH in apoptosis (2), gene expression (3), and nuclear transport (4). GAPDH may also play a role in neurodegenerative pathologies such as Huntington and Alzheimer's diseases (4,5).				
Background References		1. Barber, R.D. et al. (2005) <i>Physiol. Genomics</i> 21, 389-95. 2. Hara, M.R. and Snyder, S.H. (2006) <i>Cell Mol. Neurobiol.</i> 26, 527-38. 3. Zheng, L. et al. (2003) <i>Cell</i> 114, 255-66. 4. Bae, B.I. et al. (2006) <i>Proc. Natl. Acad. Sci. USA</i> 103, 3405-9. 5. Wang, Q. et al. (2005) <i>FASEB J.</i> 19, 869-71.				
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey B: Bovine Pg: Pig				
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