GAPDH (D16H11) XP[®] Rabbit mAb





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Applications: W, W-S, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 37	Source/Isotype: Rabbit IgG	UniProt ID: #P04406	Entrez-Gene Id: 2597		
Product Usage Information		Application Western Blotting Simple Western™ Immunohistochemist Immunofluorescence	ry (Paraffin) (Immunocytochem	Dilution 1:1000 1:10 - 1:50 1:400 - 1:1600 1:100 - 1:400				
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. For a carrier free (BSA and azide free) version of this product see product #92310.						
Specificity/Sens	itivity	GAPDH (D16H11) $ ext{XP}^{ extsf{B}}$ Rabbit mAb detects endogenous levels of total GAPDH protein.						
Species predicto based on 100% homology	ed to react sequence	Pig						
Source / Purifica	ation	Monoclonal antibody is produced by immunzing animals with a synthetic peptide corresponding to residues surrounding Lys260 of human GAPDH protein.						
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 Re	ferences	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. 6. Kozako, T. et al. (2015) <i>Sci Rep</i> 5, 11345.						
Species Reactiv	ity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot Bu	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.				n 5% w/v nonfat		
Applications Ke	у	W: Western Blotting V Immunofluorescence	V-S: Simple Westerr (Immunocytochem	Nestern™ IHC-P: Immunohistochemistry (Paraffin) IF-IC: tochemistry)				
Cross-Reactivity	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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