MYH Antibody		Cell Signaling		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
159	Web:	info@cellsignal.com cellsignal.com		
1 0	3 Trask Lane Danvers Mas	sachusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications:	Reactivity: H	Sensitivity: Endogenous	MW (kDa):	Source/Isotype: Rabbit	UniProt ID: #O9UIF7	Entrez-Gene Id: 4595		
Product Usage Information	9	Application Western Blotting			Dilution 1:1000			
Storage		- Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Ser	:ificity/Sensitivity MYH Antibody detects endogenous levels of total MYH protein. Based on the amino acid sequence, antibody is expected to react with all isoforms of human MYH protein.				acid sequence, the			
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to carboxy terminal residues of human MYH protein. Antibodies are purified using protein A and peptide affinity chromatography.						
Background		Base excision repair (BER) proteins catalyze the removal of incorrect or damaged bases, including oxidized bases, from DNA. N-glycosylases specific to a given lesion remove the incorrect base as the first step in BER. MYH is the mammalian ortholog of <i>E. coli</i> MutY, a DNA glycosylase that catalyzes the removal of 8-oxoG:A mismatches (1). Several MYH isoforms have been detected in human cells localizing to either the nucleus or the mitochondria (2). MYH interacts with DNA repair proteins and localizes to DNA damage foci after oxidative damage (3). Research studies have shown that mutations in the corresponding MYH gene are associated with human gastric (4) and colorectal (5-7) cancers.						
Background R	eferences	 Slupska, M.M. et al. (1996) <i>J Bacteriol</i> 178, 3885-92. Ohtsubo, T. et al. (2000) <i>Nucleic Acids Res</i> 28, 1355-64. Shi, G. et al. (2006) <i>Biochem J</i> 400, 53-62. Kobayashi, K. et al. (2008) <i>Anticancer Res</i> 28, 215-21. Bai, H. et al. (2007) <i>Cancer Lett</i> 250, 74-81. Pope, M.A. et al. (2005) <i>DNA Repair (Amst)</i> 4, 315-25. Wooden, S.H. et al. (2004) <i>Cancer Lett</i> 205, 89-95. 						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human						
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