HMGA1 (D6A4) XP[®] Rabbit mAb





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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P17096	Entrez-Gene Id: 3159	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)			Dilution 1:1000 1:200 1:800 - 1:3200		
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/Sen	sitivity	HMGA1 (D6A4) XP [®] Rabbit mAb recognizes endogenous levels of total HMGA1 protein, isoforms 1a a 1b. Based on sequence homology, this antibody is not predicted to cross-react with HMGA2.					
Species predic based on 100% homology		Bovine					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly68 of human HMGA1 protein.					
Background		HMGA1, formerly known as HMG-I/Y, belongs to a family of high mobility group proteins that contain an AT-hook DNA binding domain. HMGA proteins are considered architectural transcription factors; they do not have direct transcriptional activation capacity, but instead regulate gene expression by changing DNA conformation through binding to AT-rich regions in the DNA and/or direct interaction with other transcription factors (1,2). HMGA1 is highly expressed during embryogenesis and in embryonic stem cells, but not in fully differentiated adult tissues (2-4). Research studies have shown that HMGA1 is over-expressed in rapidly dividing neoplastic cells and a wide variety of aggressive cancers, including thyroid, colon, breast, pancreas, and prostate (2-4). Investigators have shown that forced expression of HMGA1 induces cellular transformation and an epithelial-to-mesenchymal transition (EMT), while inhibition of HMGA1 expression blocks anchorage-independent cell growth and proliferation of cancer cells, suggesting that HMGA1 contributes to carcinogenesis by inducing and maintaining a de-differentiated, highly proliferative cell state (5-8).					
Background Ro	eferences	 Cleynen, I. and Van de Ven, W.J. (2008) <i>Int J Oncol</i> 32, 289-305. Resar, L.M. (2010) <i>Cancer Res</i> 70, 436-9. Chiappetta, G. et al. (1996) <i>Oncogene</i> 13, 2439-46. Ben-Porath, I. et al. (2008) <i>Nat Genet</i> 40, 499-507. Wood, L.J. et al. (2000) <i>Mol Cell Biol</i> 20, 5490-502. Wood, L.J. et al. (2000) <i>Cancer Res</i> 60, 4256-61. Xu, Y. et al. (2004) <i>Cancer Res</i> 64, 3371-5. Scala, S. et al. (2000) <i>Proc Natl Acad Sci U S A</i> 97, 4256-61. 					
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	ty Key	H: Human Mk: Monkey					
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc.					

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