

2094

HMGA1 (D4F8) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IHC-P, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit	UniProt ID: #P17096	Entrez-Gene Id: 3159
Product Usage Information		Application Western Blotting Immunohistochemist Immunofluorescence	•	nistry)		Dilution 1:1000 1:2000 1:200
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		HMGA1 (D4F8) Rabbit mAb recognizes endogenous levels of total HMGA1 protein, isoforms 1a and 1b. Based on sequence homology, this antibody is not predicted to cross-react with HMGA2.				
Species predict based on 100% homology		Bovine				
Source / Purific	Irce / Purification Monoclonal antibody is produced by immunizing animals with a synthetic pepti residues surrounding Gly68 of human HMGA1 protein.					orresponding to
Background	HMGA1, formerly known as HMG-I/Y, belongs to a family of high mobility group proteins that co an AT-hook DNA binding domain. HMGA proteins are considered architectural transcription factor they do not have direct transcriptional activation capacity, but instead regulate gene expression changing DNA conformation through binding to AT-rich regions in the DNA and/or direct interact 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 aggressiv cancers, including thyroid, colon, breast, pancreas, and prostate (2-4). Investigators have shown forced expression of HMGA1 induces cellular transformation and an epithelial-to-mesenchymal transition (EMT), while inhibition of HMGA1 expression blocks anchorage-independent cell grow proliferation of cancer cells, suggesting that HMGA1 contributes to carcinogenesis by inducing a maintaining a de-differentiated, highly proliferative cell state (5-8).					
Background Re	eferences	 Cleynen, I. and Van de Ven, W.J. (2008) Int J Oncol 32, 289-305. Resar, L.M. (2010) Cancer Res 70, 436-9. Chiappetta, G. et al. (1996) Oncogene 13, 2439-46. Ben-Porath, I. et al. (2008) Nat Genet 40, 499-507. Wood, L.J. et al. (2000) Mol Cell Biol 20, 5490-502. Wood, L.J. et al. (2000) Cancer Res 60, 4256-61. Xu, Y. et al. (2004) Cancer Res 64, 3371-5. Scala, S. et al. (2000) Proc Natl Acad Sci U S A 97, 4256-61. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved 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 Key

 $\textbf{W:} \ \textbf{Western Blotting IHC-P:} \ \textbf{Immunohistochemistry (Paraffin) IF-IC:} \ \textbf{Immunofluorescence}$

(Immunocytochemistry)

Cross-Reactivity Key

H: Human Mk: Monkey

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