

#8179 Store at -20C

**HMGA2 (D1A7) Rabbit mAb****Cell Signaling**  
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P, IF-IC	H M R	Endogenous	18	Rabbit IgG	#P52926	8091

**Product Usage Information****Application**

Western Blotting

Immunohistochemistry (Paraffin)

Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000

1:200 - 1:800

1:200 - 1:800

**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 #44990.

**Specificity / Sensitivity**

HMGA2 (D1A7) Rabbit mAb recognizes endogenous levels of total HMGA2 protein.

**Species predicted to react based on 100% sequence homology:**

Monkey

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human HMGA2 protein.

**Background**

HMGA2 belongs to the family of high mobility group with 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). HMGA2 is abundantly and ubiquitously expressed and plays a crucial role during embryonic development (3). HMGA2 promotes stem cell self-renewal and research studies have shown that decreased HMGA2 expression is associated with stem cell aging (2,4-6). Investigators have shown that expression levels of HMGA2 are very low in normal adult tissues, while either overexpression or rearrangement is associated with many types of cancer (7-10).

**Background References**

1. Cleynen, I. and Van de Ven, W.J. (2008) *Int J Oncol* 32, 289-305.
2. Pfannkuche, K. et al. (2009) *Stem Cell Rev* 5, 224-30.
3. Monzen, K. et al. (2008) *Nat Cell Biol* 10, 567-74.
4. Nishino, J. et al. (2008) *Cell* 135, 227-39.
5. Li, O. et al. (2006) *Genesis* 44, 523-9.
6. Li, O. et al. (2007) *FEBS Lett* 581, 3533-7.
7. Fusco, A. and Fedele, M. (2007) *Nat Rev Cancer* 7, 899-910.
8. Rawlinson, N.J. et al. (2008) *Cancer Genet Cytogenet* 181, 119-24.
9. Wei, J.J. et al. (2010) *Am J Surg Pathol* 34, 18-26.
10. Mahajan, A. et al. (2010) *Mod Pathol* 23, 673-81.

**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**

**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)  
**IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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