

#8179 Store at -20C

## HMGA2 (D1A7) Rabbit mAb



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**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

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- Nishino, J. et al. (2008) *Cell* 135, 227-39.
- Li, O. et al. (2006) *Genesis* 44, 523-9.
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- Fusco, A. and Fedele, M. (2007) *Nat Rev Cancer* 7, 899-910.
- Rawlinson, N.J. et al. (2008) *Cancer Genet Cytogenet* 181, 119-24.
- Wei, J.J. et al. (2010) *Am J Surg Pathol* 34, 18-26.
- 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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