

# HMGA2 Antibody



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<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P52926	<b>Entrez-Gene Id:</b> 8091
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## Product Usage Information

### Application

Western Blotting  
Immunoprecipitation

### Dilution

1:1000  
1:50

## 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/Sensitivity

HMGA2 Antibody detects endogenous levels of total HMGA2 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human HMGA2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## 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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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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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