

**HMG4 Antibody**  
**Rabbit mAb**  
**Catalog # AP92868****Specification**

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**HMG4 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O15347</a>
Clonality	Monoclonal
<b>Other Names</b>	
HMG 4; HMG2A; Hmgb3;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	22980 Da

**HMG4 Antibody - Additional Information**

Dilution	WB~~1:1000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human HMG4
Description	Binds preferentially single-stranded DNA and unwinds double stranded DNA.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**HMG4 Antibody - Protein Information****Name** HMGB3**Synonyms** HMG2A, HMG4**Function**

Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. Associates with chromatin and binds DNA with a preference for non-canonical DNA structures such as single-stranded DNA. Can bend DNA and enhance DNA flexibility by looping thus providing a mechanism to promote activities on various gene promoters (By similarity). Proposed to be involved in the innate immune response to nucleic acids by acting as a cytoplasmic promiscuous immunogenic DNA/RNA sensor (By similarity). Negatively regulates B-cell and myeloid cell differentiation. In hematopoietic stem cells may regulate the balance between self-renewal and differentiation. Involved in negative regulation of canonical Wnt signaling (By similarity).

**Cellular Location**

Nucleus {ECO:0000250|UniProtKB:P40618, ECO:0000255|PROSITE-ProRule:PRU00267}.

Chromosome Cytoplasm {ECO:0000250|UniProtKB:O54879}

#### Tissue Location

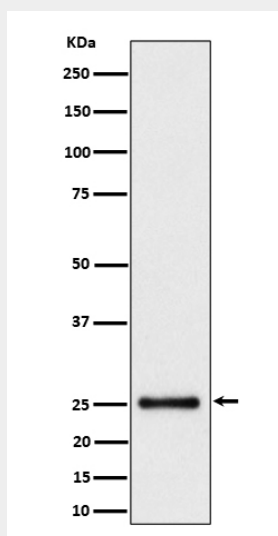
Expressed predominantly in placenta.

#### HMG4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### HMG4 Antibody - Images



Western blot analysis of HMG4 expression in HeLa cell lysate.