

**Product Name: HMG4 Rabbit Monoclonal Antibody****Catalog #: AMRe02097**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human, Mouse, Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	0.5mg/ml. The concentration of this product may be batch-dependent.
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000
<b>Molecular Weight</b>	Calculated MW: 23 kDa; Observed MW: 23 kDa

**Antigen Information**

<b>Gene Name</b>	HMGB3
<b>Alternative Names</b>	HMG4; HMG-4; HMG2A; HMG-2a
<b>Gene ID</b>	3149
<b>SwissProt ID</b>	O15347
<b>Immunogen</b>	A synthetic peptide of human HMG4

**Background**

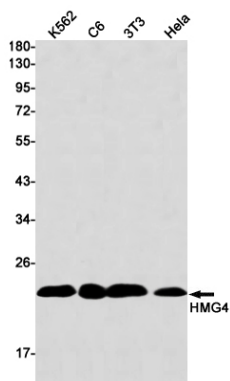
Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. Associates with chromatin and binds DNA with a preference to non-canonical DNA structures such as single-stranded DNA. Can bent DNA

and enhance DNA flexibility by looping thus providing a mechanism to promote activities on various gene promoters . Proposed to be involved in the innate immune response to nucleic acids by acting as a cytoplasmic promiscuous immunogenic DNA/RNA sensor . 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 .

## Research Area

Epigenetics and Nuclear Signaling

## Image Data



Western blot analysis of HMG4 in K562, C6, 3T3, HeLa lysates using HMG4 antibody.