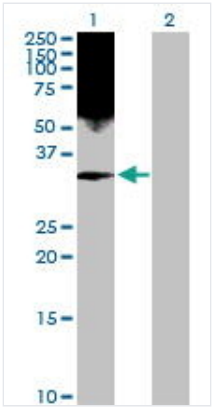
HMG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HMG2, Polyclonal Antibody
Full Product Name	HMG2 (High-mobility Group Box 2, High Mobility Group Protein B2, High Mobility Group Protein 2, HMG-2, HMGB2) (Biotin)
Product Gene Name	anti-HMG2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human HMGB2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	24,034 Da
OMIM	163906
3D Structure	ModBase 3D Structure for P26583
Immunogen	Full length human HMGB2, aa1-209 (NP_002120.1).
Immunogen Sequence	MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPK
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-HMG2 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-HMG2 antibody	Western Blot (WB)
Application Notes for anti-HMG2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HMG2 antibody	This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated a circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was al

Other Notes	Small volumes of anti-HMG2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess fee may apply.
Searchable Terms for HMG2 purchase	MBS6381344 is an antibody targeting HMG2. Also known as HMG2 (High-mobility Group Box 2, High Mobility Group Protein B2, High Mobility Group P



Western Blot (WB) of anti-HMG2 antibody
Western Blot analysis of HMGB2 expression in transfected 293T cell line by HMGB2 polyclonal antibody. Lane 1: HMGB2 transfected lysate (24kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMG2. It may not necessarily be applicable to this product.

NCBI GI #	11321591
NCBI GeneID	3148
NCBI Accession #	NP_002120.1
UniProt Primary Accession #	P26583
UniProt Secondary Accession #	Q5U072; B2R4K8; D3DP37
UniProt Related Accession #	P26583
GenBank Nucleotide #	NM_002129.2
NCBI Official Full Name	high mobility group protein B2
NCBI Official Synonym Full Names	high mobility group box 2
NCBI Official Symbol	HMGB2
NCBI Official Synonym Symbols	HMG2
UniProt Protein Name	High mobility group protein B2
UniProt Synonym Protein Names	High mobility group protein 2
Protein Family	3-hydroxy-3-methylglutaryl-coenzyme A reductase
UniProt Gene Name	HMGB2
UniProt Synonym Gene Names	HMG2; HMG-2
UniProt Entry Name	HMGB2_HUMAN
NCBI Protein Information	high mobility group protein B2; HMG-2; high-mobility group box 2; high mobility group protein 2; high-mobility group (nonhistone chromosomal) protein 2

UniProt Comments for HMG2	HMGB2: DNA binding proteins that associates with chromatin and has the ability to bend DNA. Binds preferentially single-stranded DNA. Involved in V(D)J recombination by acting as a cofactor of the RAG complex. Acts by stimulating cleavage and RAG protein binding at the 23 bp spacer of conserved recombination signal sequences (RSS). Belongs to the HMGB family. Protein type: DNA-binding; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 4q31 Cellular Component: nucleoplasm; extracellular space; protein complex; perinuclear region of cytoplasm; cytoplasm; condensed chromosome; nucleus Molecular Function: protein domain specific binding; RAGE receptor binding; protein binding; DNA binding; double-stranded DNA binding; damaged DNA binding; chromatin binding; DNA bending activity; transcription factor activity; single-stranded DNA binding; chemoattractant activity Biological Process: positive regulation of nuclease activity; establishment and/or maintenance of chromatin architecture; DNA topological change; V(D)J recombination; apoptosis; positive regulation of transcription, DNA-dependent; positive regulation of erythrocyte differentiation; male gonad development; spermatid nuclear differentiation; base-excision repair, DNA ligation; regulation of transcription from RNA polymerase II promoter; chromatin remodeling; nucleosome assembly; positive chemotaxis; response to steroid hormone stimulus; DNA ligation during DNA repair; positive regulation of megakaryocyte differentiation; positive regulation of endothelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; DNA fragmentation during apoptosis; negative regulation of transcription, DNA-dependent; positive regulation of DNA binding; cell structure disassembly during apoptosis
Research Articles on HMG2	**1.** The present data suggest that HMGB2 expression is a significant prognostic factor for glioblastoma and might play an important role in cell invasion.
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