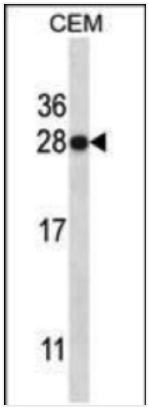
HMGB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HMGB1, Polyclonal Antibody
Full Product Name	HMGB1 (HMGB1, HMG1, High mobility group protein B1, High mobility group protein 1) (FITC)
Product Gene Name	anti-HMGB1 antibody
Product Synonym Names	HMGB1; HMG1; High mobility group protein B1; High mobility group protein 1
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human HMGB1.
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 store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	24,894 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (31032877..31040081, complement). Location: 13q12
OMIM	163905
3D Structure	ModBase 3D Structure for P09429
Immunogen	Recombinant protein correspondign to human HMGB1. Species sequence homology: equine and monkey
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-HMGB1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-HMGB1 antibody	Western Blot (WB), FLISA
Application Notes for anti-HMGB1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HMGB1 antibody	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). Heparin-binding protein that has a role in the extension of neurite-type cytoplasmic processes in developing cells (By similarity).

Other Notes	Small volumes of anti-HMGB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HMGB1 purchase	MBS6307245 is an antibody targeting HMGB1. Also known as HMGB1 (HMGB1, HMG1, High mobility group protein B1, High mobility group protein 1) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HMGB1 antibody
Western Blot analysis in CEM cell line lysates (35ug/lane), using 036636. This demonstrates that 036636 detected the HMGB1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGB1. It may not necessarily be applicable to this product.

NCBI GI #	4504425
NCBI GeneID	3146
NCBI Accession #	NP_002119.1
UniProt Primary Accession #	P09429
UniProt Secondary Accession #	Q14321; Q5T7C3; Q6IBE1; A5D8W9
UniProt Related Accession #	P09429
GenBank Nucleotide #	NM_002128.4
NCBI Official Full Name	high mobility group protein B1
NCBI Official Synonym Full Names	high mobility group box 1
NCBI Official Symbol	HMGB1
NCBI Official Synonym Symbols	HMG1; HMG3; SBP-1
UniProt Protein Name	High mobility group protein B1
UniProt Synonym Protein Names	High mobility group protein 1
Protein Family	High mobility group B protein
UniProt Gene Name	HMGB1
UniProt Synonym Gene Names	HMG1; HMG-1
UniProt Entry Name	HMGB1_HUMAN
NCBI Protein Information	high mobility group protein B1; HMG-1; Amphoterin; high-mobility group box 1; high mobility group protein 1; Sulfoglucuronyl carbohydrate binding protein; high-mobility group (nonhistone chromosomal) protein 1

UniProt Comments for HMGB1	HMGB1: 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). Heparin-binding protein that has a role in the extension of neurite-type cytoplasmic processes in developing cells. Component of the RAG complex composed of core components RAG1 and RAG2, and associated component HMGB1 or HMGB2. Belongs to the HMGB family. Protein type: DNA repair, damage; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 13q12 Cellular Component: nucleoplasm; extracellular space; cell surface; transcriptional repressor complex; extracellular region; condensed chromosome; nucleus Molecular Function: protein binding; RAGE receptor binding; double-stranded DNA binding; damaged DNA binding; cytokine activity; chromatin binding; transcription factor activity; DNA bending activity; transcription factor binding; single-stranded DNA binding; chemoattractant activity Biological Process: negative regulation of transcriptional preinitiation complex assembly; DNA topological change; V(D)J recombination; apoptosis; positive regulation of apoptosis; positive regulation of caspase activity; base-excision repair, DNA ligation; negative regulation of transcription from RNA polymerase II promoter; DNA recombination; chromatin remodeling; regulation of transcription from RNA polymerase II promoter; myeloid dendritic cell activation; inflammatory response to antigenic stimulus; positive chemotaxis; dendritic cell chemotaxis; innate immune response; DNA ligation during DNA repair; positive regulation of transcription from RNA polymerase II promoter; DNA fragmentation during apoptosis; neurite development; cell structure disassembly during apoptosis; positive regulation of DNA binding
Research Articles on HMGB1	**1.** HMGB1 level is an independent predictor of poor functional outcome following aneurysmal subarachnoid hemmorrhage.
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