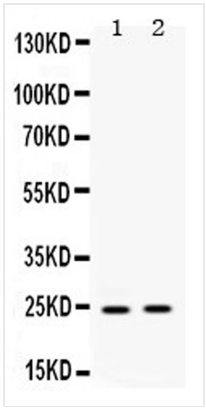
HMGB2 Antibody – Rabbit Polyclonal

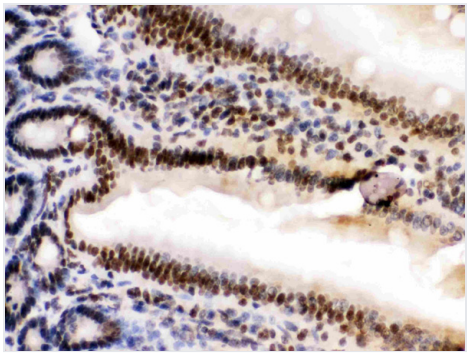
PRODUCT OVERVIEW

Product Name	HMGB2, Polyclonal Antibody
Full Product Name	Anti-HMGB2 Antibody
Product Gene Name	anti-HMGB2 antibody
Product Synonym Names	C80539; HMG2; HMG-2; HMG 2; HMG B2; HMGB2; P26583; High mobility group protein B2; high mobility group box 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Form/Format	Lyophilized
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	24,034 Da
OMIM	163906
3D Structure	ModBase 3D Structure for P26583
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HMGB2 (65-97aa KSDKARYDREMKNYVPPKGDKKGKKKDPNAPKR), identical to the related mouse and rat sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-HMGB2 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-HMGB2 antibody	Western Blot: 0.1-0.5mug/ml; Tested Species: Human, Rat Immunohistochemisry Paraffin: 0.5-1mug/ml; Tested Species: Human, Mouse, Rat **Tested Species:**In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Related Product Information for anti-HMGB2 antibody	Rabbit IgG polyclonal antibody for High mobility group protein B2 (HMGB2) detection. Background: High-mobility group protein B2, also known as high-mobility group protein 2 (HMG-2), is a protein that in humans is encoded by the HMGB2 gene. This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination.

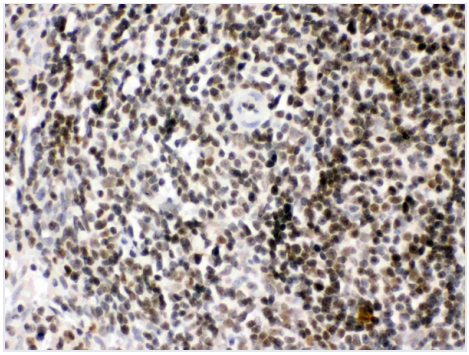
Product References and Citations for anti-HMGB2 antibody	1. "Entrez Gene: HMGB2 high-mobility group box 2". 2. Majumdar A, Brown D, Kerby S, Rudzinski I, Polte T, Randhawa Z, Seidman MM (Dec 1991). "Sequence of human HMG2 cDNA". Nucleic Acids Research 19 (23): 6643.
Other Notes	Small volumes of anti-HMGB2 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 HMGB2 purchase	MBS178502 is an antibody targeting HMGB2. Reactive in Human, Mouse, Rat No cross reactivity with other proteins.. Host: Rabbit.



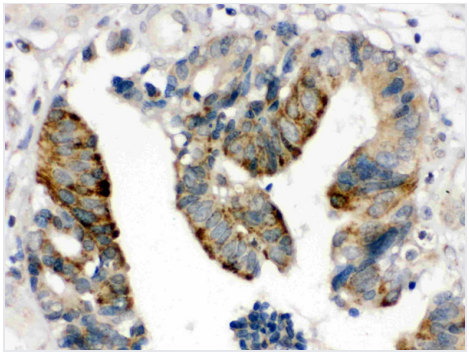
Western Blot (WB) of anti-HMGB2 antibody
Western blot analysis of HMGB2 expression in rat liver extract (lane 1) and human placenta extract (lane 2). HMGB2 at 24KD was detected using rabbit anti- HMGB2 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.



Immunohistochemistry (IHC) of anti-HMGB2 antibody
HMGB2 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti- HMGB2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



Immunohistochemistry (IHC) of anti-HMGB2 antibody
HMGB2 was detected in paraffin-embedded sections of rat spleen tissues using rabbit anti-HMGB2 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



Immunohistochemistry (IHC) of anti-HMGB2 antibody
HMGB2 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- HMGB2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGB2. It may not necessarily be applicable to this product.

NCBI GI #	194688133
NCBI GeneID	3148
NCBI Accession #	NP_001124160.1
UniProt Primary Accession #	P26583
UniProt Secondary Accession #	Q5U072; B2R4K8; D3DP37
UniProt Related Accession #	P26583
GenBank Nucleotide #	NM_001130688.1

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; HMG-2
Protein Family	High mobility group B protein
UniProt Gene Name	HMGB2
UniProt Synonym Gene Names	HMG2; HMG-2
UniProt Entry Name	HMGB2_HUMAN
NCBI Protein Information	high mobility group protein B2
NCBI Summary for HMGB2	This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination. [provided by RefSeq, Jul 2008]
UniProt Comments for HMGB2	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: cell; condensed chromosome; cytoplasm; extracellular space; nuclear chromatin; nucleolus; nucleoplasm; nucleus; perinuclear region of cytoplasm; protein complex Molecular Function: chemoattractant activity; damaged DNA binding; DNA bending activity; DNA binding; double-stranded DNA binding; drug binding; four-way junction DNA binding; protein binding; RAGE receptor binding; single-stranded DNA binding; transcription factor activity; transcription factor binding Biological Process: defense response to Gram-negative bacterium; defense response to Gram-positive bacterium; DNA fragmentation during apoptosis; DNA geometric change; DNA ligation during DNA repair; DNA topological change; inflammatory response to antigenic stimulus; negative regulation of transcription, DNA-dependent; positive regulation of DNA binding; positive regulation of endothelial cell proliferation; positive regulation of erythrocyte differentiation; positive regulation of megakaryocyte differentiation; positive regulation of nuclease activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of neurogenesis; regulation of transcription from RNA polymerase II promoter; response to drug; response to lipopolysaccharide; V(D)J recombination
Research Articles on HMGB2	**1.** Lrp1-antisense directly binds to high-mobility group box 2 (Hmgb2) and inhibits the activity of Hmgb2 to enhance Srebp1a-dependent transcription of Lrp1.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/hmgb2/178502