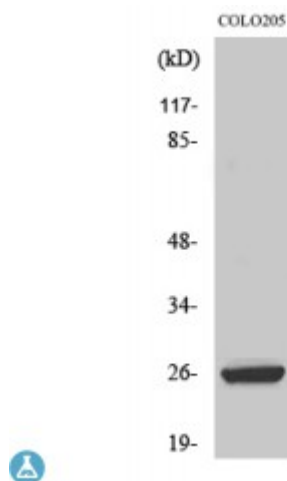


## Anti-HMG-2 antibody



<b>Description</b>	Rabbit polyclonal to HMG-2.
<b>Model</b>	STJ93552
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, IF, IHC, WB
<b>Immunogen</b>	Synthesized peptide derived from human HMG-2
<b>Immunogen Region</b>	100-180 aa, Internal
<b>Gene ID</b>	<a href="#">3148</a>
<b>Gene Symbol</b>	<a href="#">HMGB2</a>
<b>Dilution range</b>	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
<b>Specificity</b>	HMG-2 Polyclonal Antibody detects endogenous levels of HMG-2 protein.
<b>Tissue Specificity</b>	Expressed in gastric and intestinal tissues (at protein level).
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	High mobility group protein B2 High mobility group protein 2 HMG-2
<b>Molecular Weight</b>	27 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated

<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/RefSeq/record/MIM:163906">HGNC:50000MIM:163906</a>
<b>Alternative Names</b>	High mobility group protein B2 High mobility group protein 2 HMG-2
<b>Function</b>	Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. In the nucleus is an abundant chromatin-associated non-histone protein involved in transcription, chromatin remodeling and V(D)J recombination and probably other processes. 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 by enhancing transcription factor binding and/or bringing distant regulatory sequences into close proximity . 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) . Proposed to be involved in the innate immune response to nucleic acids by acting as a promiscuous immunogenic DNA/RNA sensor which cooperates with subsequent discriminative sensing by specific pattern recognition receptors . In the extracellular compartment acts as a chemokine. Promotes proliferation and migration of endothelial cells implicating AGER/RAGE . Has antimicrobial activity in gastrointestinal epithelial tissues . Involved in inflammatory response to antigenic stimulus coupled with proinflammatory activity . Involved in modulation of neurogenesis probably by regulation of neural stem proliferation . Involved in articular cartilage surface maintenance implicating LEF1 and the Wnt/beta-catenin pathway .
<b>Sequence and Domain Family</b>	Both, HMG box 1 and HMG box 2, show antimicrobial activity.
<b>Cellular Localization</b>	Nucleus Chromosome Cytoplasm Secreted. In basal state predominantly nuclear.
<b>Post-translational Modifications</b>	Reduction/oxidation of cysteine residues Cys-23, Cys-45 and Cys-106 and a possible intramolecular disulfide bond involving Cys-23 and Cys-45 give rise to different redox forms with specific functional activities in various cellular compartments: 1- fully reduced HMGB2 (HMGB2C23hC45hC106h), 2- disulfide HMGB2 (HMGB2C23-C45C106h) and 3- sulfonyl HMGB2 (HMGB2C23soC45soC106so). Acetylation enhances nucleosome binding and chromatin remodeling activity.