

Rabbit HMGB1 Polyclonal Antibody | anti-HMGB1 antibody

HMGB1 antibody

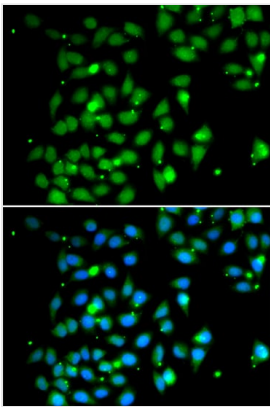
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA29657	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

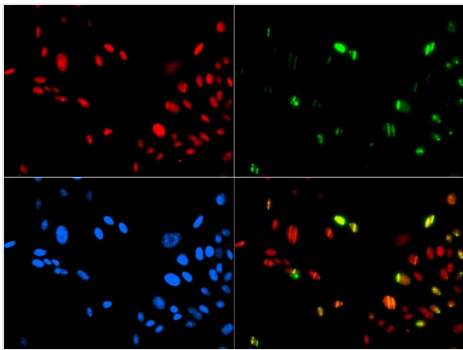
HMGB1; Polyclonal Antibody; HMGB1 antibody; DKFZp686A04236; HMG1; HMG3; SBP-1; anti-HMGB1 antibody

PRODUCT SPECIFICATIONS

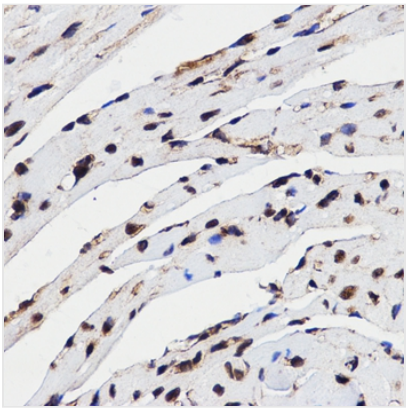
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total HMGB1 antibody.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	215
Applicable Applications for anti-HMGB1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human HMGB1.
Target Name	HMGB1
Preparation and Storage	Store at -20 degree C



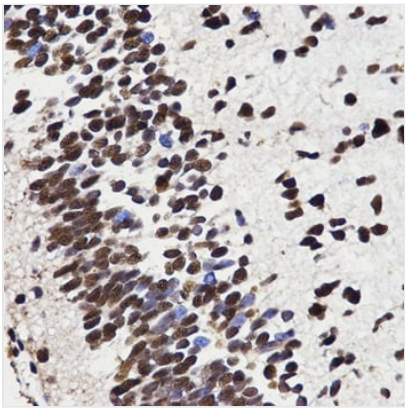
IF (Immunofluorescence)
Immunofluorescence analysis of A549 cell using HMGB1 antibody. Blue: DAPI for nuclear staining.



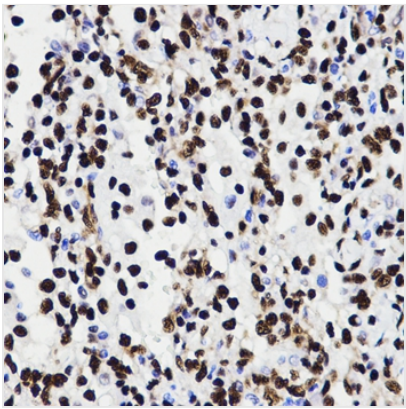
IF (Immunofluorescence)
Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using HMGB1 antibody. Green degree GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.



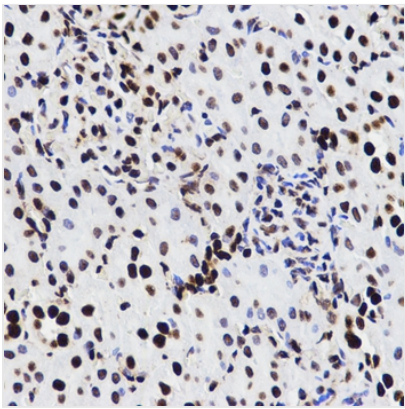
IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded mouse heart tissue, using HMGB1 antibody.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded human embryo brain, using HMGB1 antibody.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded human lung cancer, using HMGB1 antibody.



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffin-embedded rat kidney tissue, using HMGB1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HMGB1 antibody	High mobility group protein B1 (HMGB1) belongs to a family of highly conserved proteins that contain HMG box domains (1,2). All three family members (HMGB1, HMGB2, and HMGB3) contain two HMG box domains and a C-terminal acidic domain. HMGB1 is a widely expressed and highly abundant protein (2). HMGB2 is widely expressed during embryonic development, but is restricted to lymphoid organs and testis in adult animals (3). HMGB3 is only expressed during embryogenesis (4). While expression varies, the biochemical properties of the different family members may be indistinguishable. The HMG box domains facilitate the binding of HMGB proteins to the minor groove of DNA, which results in local bending of the DNA double helix (1,2). HMGB proteins are recruited by and help facilitate the assembly of site-specific DNA binding proteins to their cognate binding sites in chromatin. For example, HMGB1 facilitates the binding of Hox proteins, Oct-1, p53, Rel proteins, and steroid hormone receptor proteins to their target gene promoters (1,2). In addition to their functions in the nucleus, HMGB proteins play a significant role in extracellular signaling associated with inflammation (5,6). HMGB1 is massively released into the extracellular environment during cell necrosis, but not apoptosis. Extracellular HMGB1 "alarms" the innate immune system by acting as a chemoattractant for inflammatory leukocytes, smooth muscle cells, and stem cells, functioning as an immune adjuvant for soluble and particulate antigens, and triggering activation of T cells and dendritic cells. In addition, activated monocytes, macrophages and dendritic cells also secrete HMGB1, forming a positive feedback loop that results in the release of additional cytokines and neutrophils. Hypoxia has also been shown to cause the release of HMGB1 in the liver, and some studies suggest a role for extracellular HMGB1 in tumor homeostasis (5,6).
Product Categories/Family for anti-HMGB1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504425
NCBI GeneID	3146
NCBI Accession #	NP_002119.1
NCBI GenBank Nucleotide #	NM_002128.5
UniProt Accession #	P09429; Q14321; Q5T7C3; Q6IBE1; A5D8W9
Molecular Weight	24,894 Da
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; HMG-1; SBP-1
NCBI Protein Information	high mobility group protein B1
UniProt Protein Name	High mobility group protein B1
UniProt Gene Name	HMGB1
UniProt Synonym Gene Names	HMG1; HMG-1
UniProt Entry Name	HMGB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hmgb1-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/29657>