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Datasheet for ABIN5518759

anti-HMGB1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	HMGB1
Binding Specificity:	AA 124-154, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for High mobility group protein B1(HMGB1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human HMGB1 (124-154aa DVAKKLGEMWNNTAADDKQPYEKKAACLKEK), identical to the related mouse and rat sequences.
Sequence:	DVAKKLGEMW NNTAADDKQP YEKKAACLKE K
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for High mobility group protein B1(HMGB1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: high mobility group box 1 Protein Name: High mobility group protein B1

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: HMGB1

Alternative Name: HMGB1 ([HMGB1 Products](#))

Background: High mobility group box 1 protein, also known as high-mobility group protein 1 (HMG-1) and amphoterin, is a protein that in humans is encoded by the HMGB1 gene. This gene encodes a protein that belongs to the High Mobility Group-box superfamily. The encoded non-histone, nuclear DNA-binding protein regulates transcription, and is involved in organization of DNA. This protein plays a role in several cellular processes, including inflammation, cell differentiation and tumor cell migration. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants that encode the same protein.

Synonyms: Amphoterin | HMG-1 | HMG1 | HMG3 | HMGB 1 | HMGB1 | SBP 1 | P09429

Gene ID: 3146

UniProt: [P09429](#)

Pathways: [p53 Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Positive Regulation of Endopeptidase Activity](#), [Regulation of Carbohydrate Metabolic Process](#), [Toll-Like Receptors Cascades](#), [Smooth Muscle Cell Migration](#), [Inflammasome](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

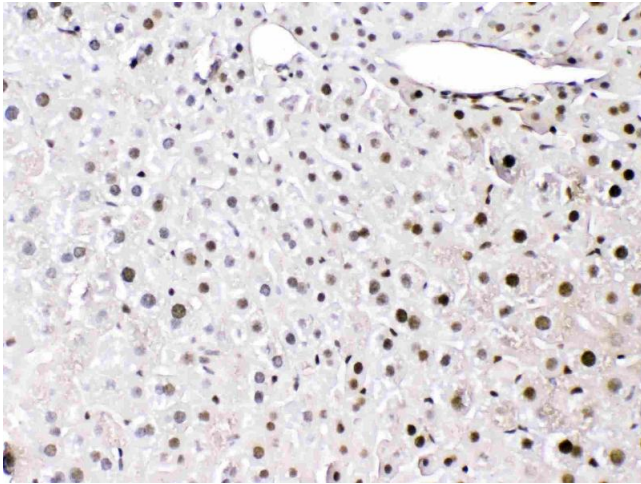
Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

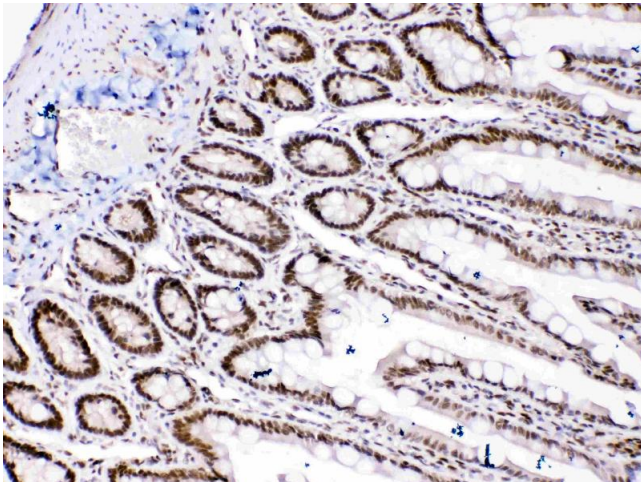
Publications

Product cited in:	Ma, Pan, Ren, Guo, Guo, Wei, Zheng, Chen: "15-oxoeicosatetraenoic acid mediates monocyte adhesion to endothelial cell." in: Lipids in health and disease , Vol. 16, Issue 1, pp. 137, (2018) (PubMed).
	Wang, Qing, Liu, Liu, Qiao, Cui, He, Zhao, Liu, Yan, Wang, Liang, Guo, Shen, Hou, Chen: "Mesenchymal stromal cells ameliorate oxidative stress-induced islet endothelium apoptosis and functional impairment via Wnt4-β-catenin signaling." in: Stem cell research & therapy , Vol. 8, Issue 1, pp. 188, (2018) (PubMed).
	Hoffman, Adeli: "LDL Receptor Gene-Ablated Hamsters: A Rodent Model of Familial Hypercholesterolemia with Dominant Inheritance and Diet-Induced Coronary Atherosclerosis." in: EBioMedicine , Vol. 28, pp. 17-18, (2018) (PubMed).
	Tian, Tao, Zhao, Tai, Liu, Liu: "Isolation and morphological characterization of ovine amniotic fluid mesenchymal stem cells." in: Experimental animals , Vol. 65, Issue 2, pp. 125-34, (2017) (PubMed).
	Ma, Pan, Chen, Guo, Zhao, Zheng, Chen: "Trimethylamine N-oxide in atherogenesis: impairing endothelial self-repair capacity and enhancing monocyte adhesion." in: Bioscience reports , Vol. 37, Issue 2, (2017) (PubMed).



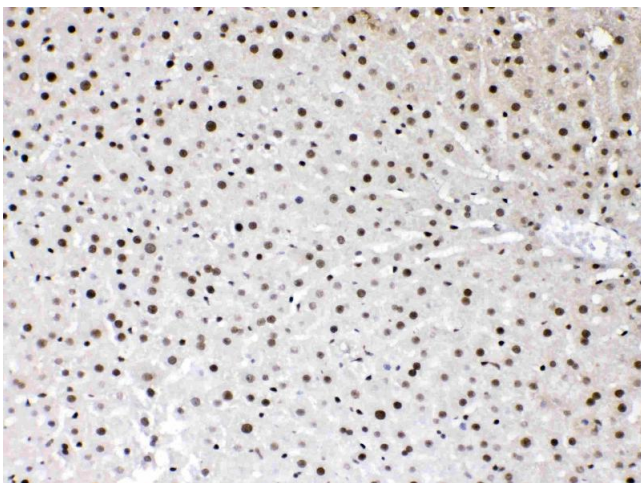
Immunohistochemistry

Image 1. HMGB1 was detected in paraffin-embedded sections of mouse liver tissues using rabbit anti- HMGB1 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 $\mu\text{g}/\text{mL}$. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. HMGB1 was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti- HMGB1 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 $\mu\text{g}/\text{mL}$. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 3. HMGB1 was detected in paraffin-embedded sections of rat liver tissues using rabbit anti- HMGB1 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 $\mu\text{g}/\text{mL}$. The immunohistochemical section was developed using SABC method (Catalog # SA1022).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN5518759.