

Datasheet for ABIN671616
anti-HMGB1 antibody (AA 75-170)[6 Images](#)[7 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	HMGB1
Binding Specificity:	AA 75-170
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human HMGB1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow
Purification:	Purified by Protein A.

Target Details

Target:	HMGB1
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Target Details

Alternative Name:	HMGB1 (HMGB1 Products)
Background:	<p>Synonyms: HMG1, HMG3, SBP-1, High mobility group protein B1, High mobility group protein 1, HMG-1, HMGB1</p> <p>Background: 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).</p>
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 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Li, Xu, Xu, Cai, Sun, Yang, Sun, Lu: "Methotrexate affects HMGB1 expression in rheumatoid arthritis, and the downregulation of HMGB1 prevents rheumatoid arthritis progression." in: **Molecular and cellular biochemistry**, Vol. 420, Issue 1-2, pp. 161-70, (2016) ([PubMed](#)).

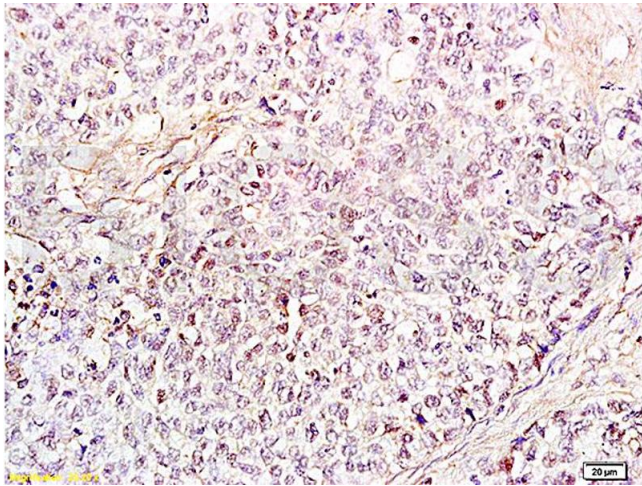
Li, Jia, Ji, Gong, Wang, Zhang, Wang, Zang: "The neutrophil elastase inhibitor, sivelestat, attenuates sepsis-related kidney injury in rats." in: **International journal of molecular medicine**, Vol. 38, Issue 3, pp. 767-75, (2016) ([PubMed](#)).

Sun, Zhang, Cui, Chen, Xie, Zhou, Liu, Peng, Zhang: "High mobility group box-1 and its clinical value in breast cancer." in: **OncoTargets and therapy**, Vol. 8, pp. 413-9, (2015) ([PubMed](#)).

Zhang, He, Wang, Zhou, Ma: "Omega-3 polyunsaturated fatty acids inhibit the increase in cytokines and chemotactic factors induced in vitro by lymph fluid from an intestinal ischemia-reperfusion injury model." in: **Nutrition (Burbank, Los Angeles County, Calif.)**, Vol. 31, Issue 3, pp. 508-14, (2015) ([PubMed](#)).

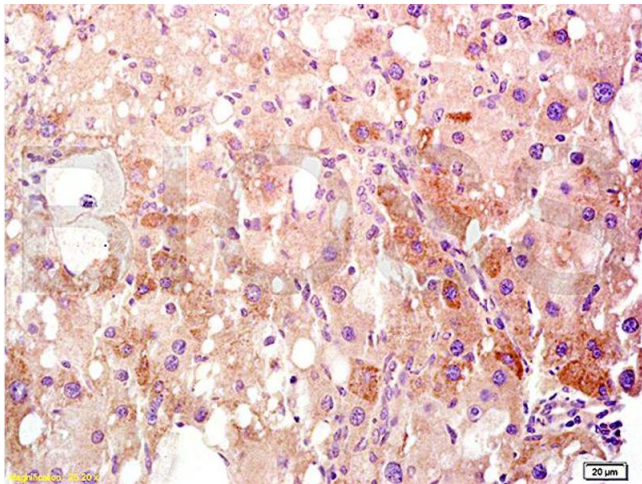
Luan, Kan, Xu, Lv, Jiang: "Rosmarinic acid protects against experimental diabetes with cerebral ischemia: relation to inflammation response." in: **Journal of neuroinflammation**, Vol. 10, pp. 28, (2013) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



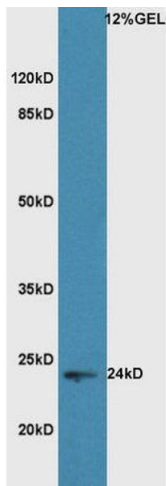
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human endometrium carcinoma labeled Anti-HMGB1 Polyclonal Antibody, Unconjugated (ABIN671616) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat liver tissue labeled Anti-HMGB1 Polyclonal Antibody, Unconjugated (ABIN671616) at 1:400, followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. Lane 1: Mouse Macrophages probed with Rabbit Anti-HMGB1 Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37°C.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN671616.