

# Product Datasheet

## HMGB1/HMG-1 Antibody (19N10B7) - BSA Free NBP2-27396

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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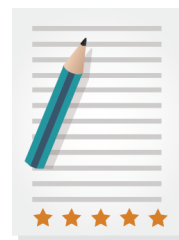
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Updated 8/21/2023 v.20.1

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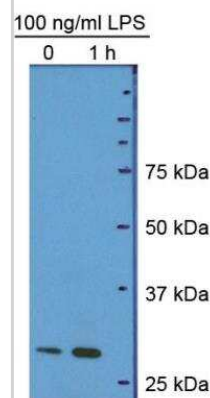
**NBP2-27396**

HMGB1/HMG-1 Antibody (19N10B7) - BSA Free

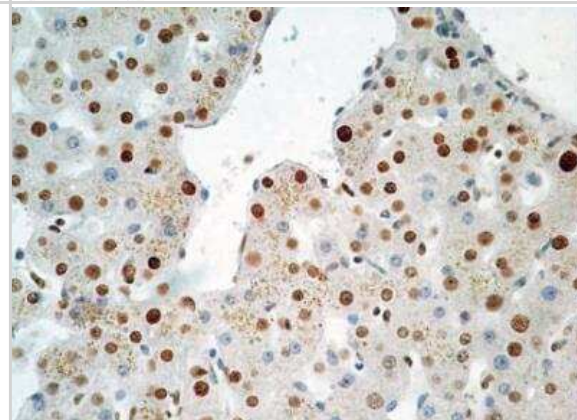
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	19N10B7
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2b Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	3146
<b>Gene Symbol</b>	HMGB1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Based upon immunogen sequence similarity, this antibody is predicted to react with Rat (99%), Bovine (99%), Porcine/Pig (99%), Chinese Hamster (99%), Chicken (91%), Canine/Dog (100%), Primate/Monkey (100%) and Equine/Horse (100%). Mouse reactivity reported in a verified customer review.
<b>Specificity/Sensitivity</b>	This antibody recognizes both A box domain (amino acids 9-79) and full length HMGB1 protein.
<b>Immunogen</b>	Full-length recombinant human HMGB1 protein
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1-3 ug/ml. Use reported by customer review, Simple Western 1:50, Flow Cytometry 0.5ug / 5x10 <sup>5</sup> cells, Immunohistochemistry 5 ug/ml, Immunoprecipitation reported in scientific literature (PMID 23696858), Immunohistochemistry-Paraffin 5 ug/ml, CyTOF-ready
<b>Application Notes</b>	In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size. This antibody is CyTOF ready.

## Images

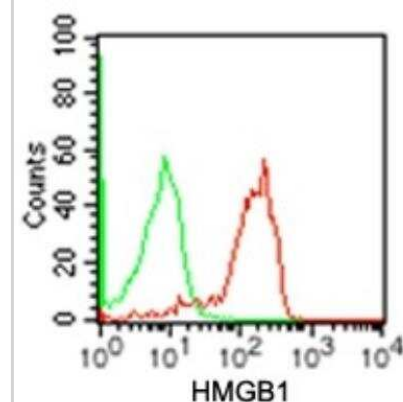
Western Blot: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Hepatocyte protein lysate at 1:1000 4C overnight. Image from verified customer review.



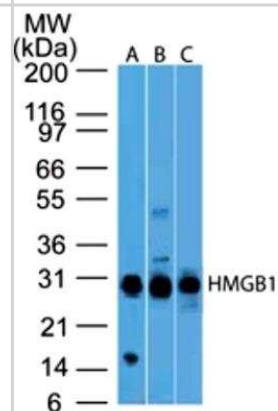
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed, paraffin-embedded human liver tissue stained with HMGB1 antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



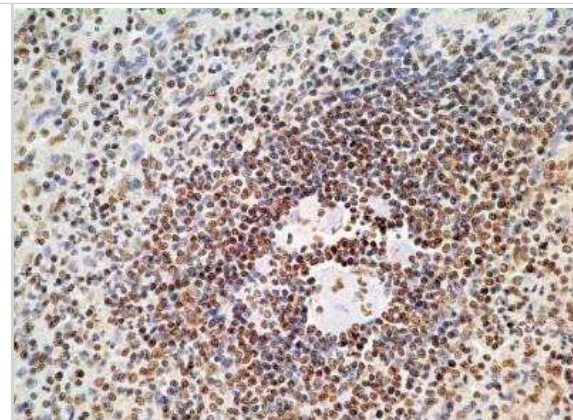
Flow Cytometry: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Intracellular analysis using HMGB1 antibody. Human Jurkat cells were probed using 0.5 ug of HMGB1 antibody (red) and 0.5 ug of isotype control antibody (green).



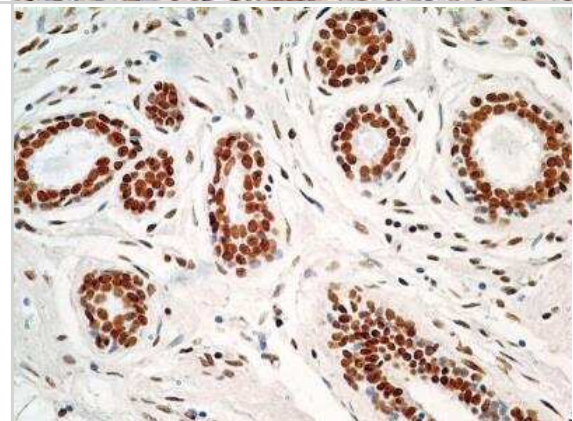
Western Blot: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Analysis using 2 ug/ml concentration of HMGB1 antibody (clone 19N10B7) on (A) Full-length human HMGB1 protein, (B) Human Jurkat cell lysate and (C) Mouse NIH 3T3 cell lysate. Goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution was used for this test.



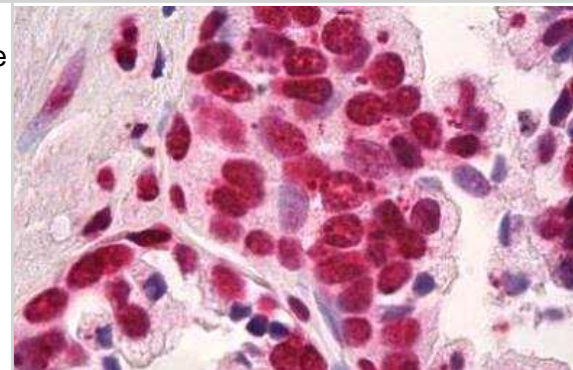
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed, paraffin-embedded human spleen tissue stained with HMGB1 antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



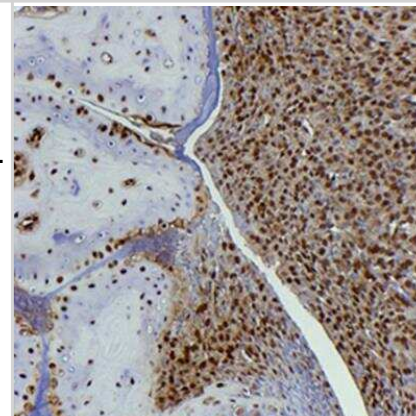
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed, paraffin-embedded human breast stained with HMGB1 antibody at 5 ug/ml.



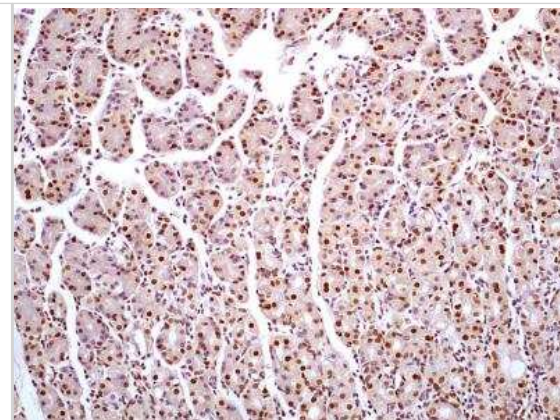
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed paraffin-embedded human prostate tissue stained with HMGB1 antibody at 10 ug/ml concentration. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.



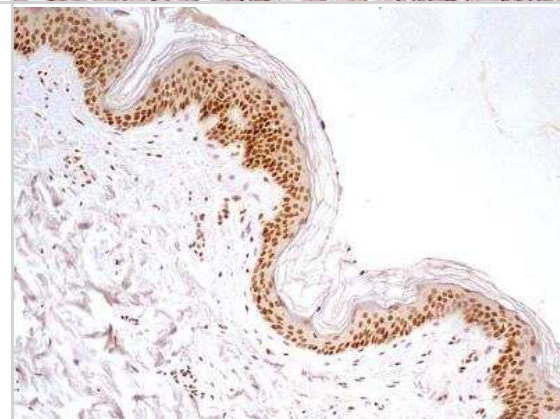
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Analysis of formalin-fixed, decalcified, paraffin embedded tissue section from the paws of mouse (collagen-induced arthritis model) using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. [Image courtesy of Dr Ulf Andersson, Karolinska Institute].



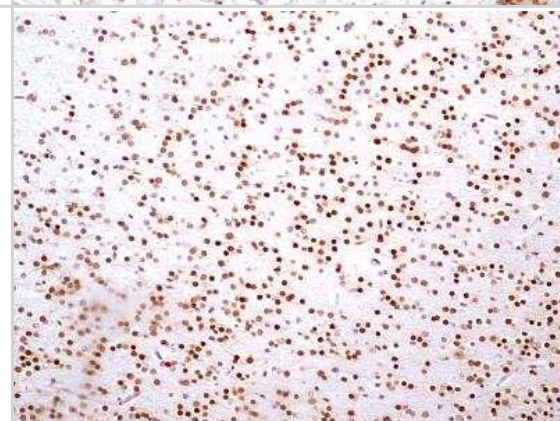
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of human stomach using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Distinct nuclear staining of HMGB1 was observed in different cells of the glandular stomach.



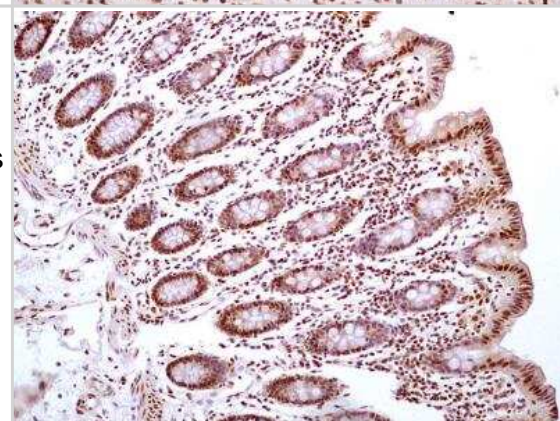
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of normal human skin using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. The various cells of the epidermal layer showed intense nuclear staining along with weak cytoplasmic staining. The blood vessels, glandular cells and the other cells in dermal layer also showed nuclear positivity for HMGB1 immunostaining.



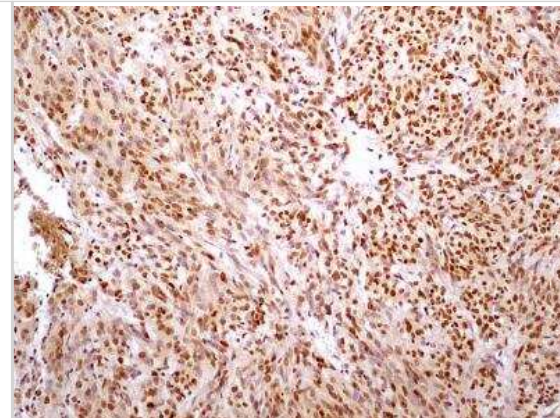
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of normal human brain using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Representative image shows a distinct nuclear immunostaining of HMGB1 in the various brain cells.



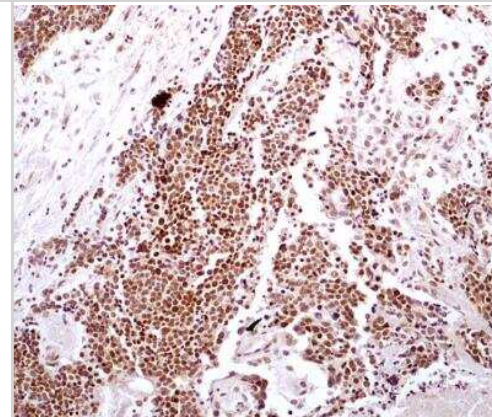
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of normal human colon using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Representative image shows specific HMGB1 nuclear positivity in different mucosal cells of the colon.



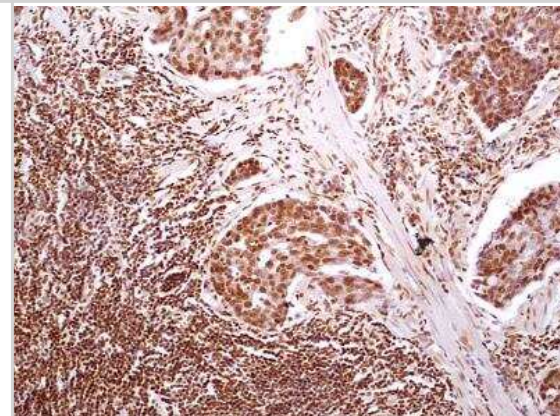
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of malignant stromal tumor of small bowel from human using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. HMGB1 immunopositivity of differential intensity was observed in the cells of tested section.



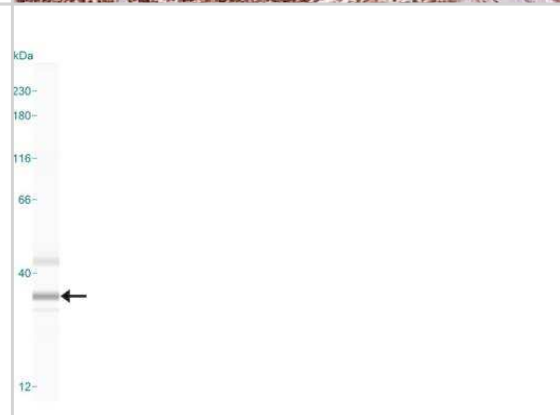
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of human bladder cancer using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Strong nuclear HMGB1 immunopositivity was observed in the bladder cancer cells whereas the staining was weak in cells of tumor stroma.



Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of human stomach cancer using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. This representative image shows a distinct nuclear HMGB1 immunopositivity in the cancerous and sub-mucosal cells.



Simple Western: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Simple Western lane view shows a specific band for HMGB1 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



## Publications

Hu J, Ding R, Liu S et al. Hypermethylation of RNF125 promotes autophagy-induced oxidative stress in asthma by increasing HMGB1 stability iScience 2023-07-01 [PMID: 37599832] (Human)

Pittet Jean-Francois, Koh Hidefumi, Fang Xiaohui et al. HMGB1 acceleRates alveolar epithelial repair via an IL-1B- and avB6 integrin-dependent activation of TGF-B1. PloS One 2013-01-01 [PMID: 23696858] (IP, Human)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA

Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
novus@novusbio.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada

Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: technical@novusbio.com  
Orders: orders@novusbio.com  
General: novus@novusbio.com

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43317-0.5mg	Mouse IgG2b Kappa Light Chain Isotype Control (MG2b)
NBP2-34960-10ug	Recombinant Human HMGB1/HMG-1 His (C-Term) Protein

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