

# 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.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 2**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-27396](http://www.novusbio.com/NBP2-27396)

Updated 2/17/2025 v.20.1

**Earn rewards for product  
reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-27396](http://www.novusbio.com/reviews/destination/NBP2-27396)



**NBP2-27396**

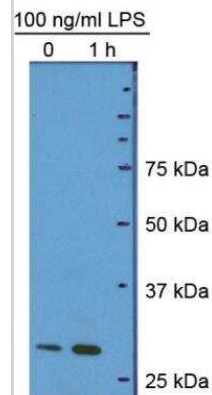
HMGB1/HMG-1 Antibody (19N10B7) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	19N10B7
Preservative	0.05% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	3146
Gene Symbol	HMGB1
Species	Human, Mouse
Reactivity Notes	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.
Specificity/Sensitivity	This antibody recognizes both A box domain (amino acids 9-79) and full length HMGB1 protein.
Immunogen	Full-length recombinant human HMGB1 protein
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	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
Application Notes	In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 34 kDa. This antibody is CyTOF ready.

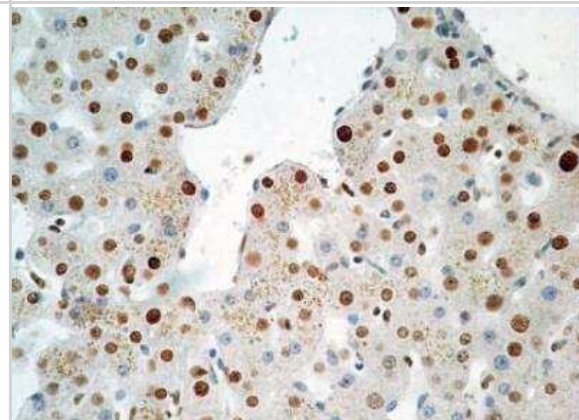


## Images

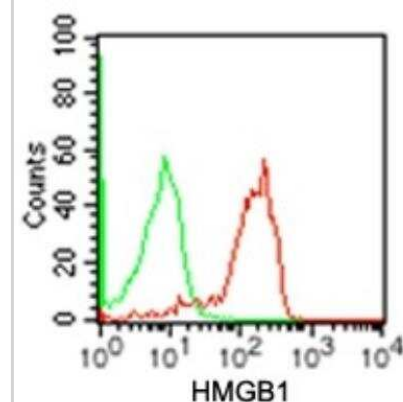
Western Blot: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Hepatocyte protein lysate at 1:1000 4C overnight. Image from verified customer review.



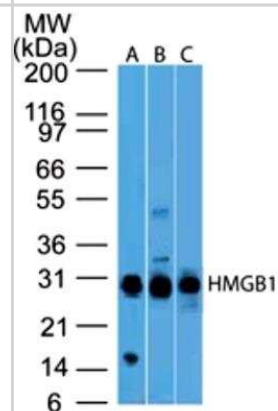
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed, paraffin-embedded human liver tissue stained with HMGB1 antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate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



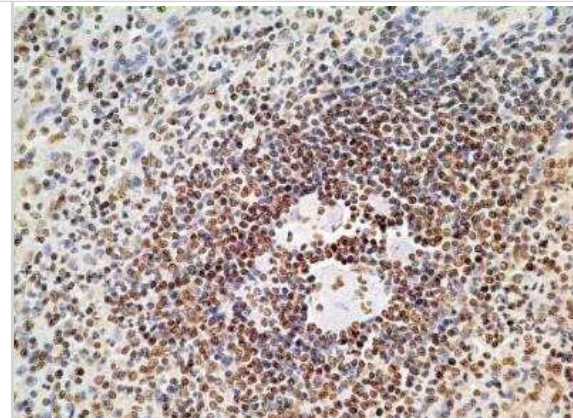
Flow Cytometry: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Intracellular analysis using HMGB1 antibody. Human Jurkat cells were probed using 0.5 ug of HMGB1 antibody (red) and 0.5 ug of isotype control antibody (green).



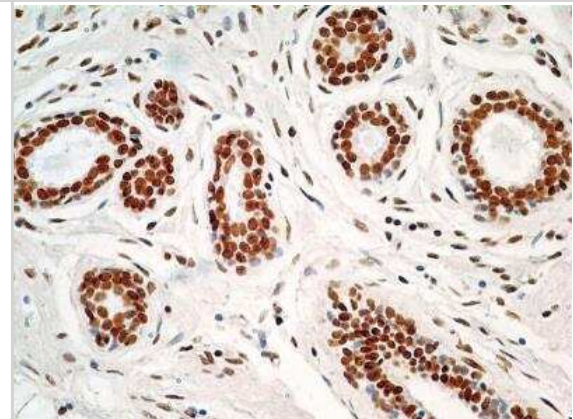
Western Blot: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Analysis using 2 ug/ml concentration of HMGB1 antibody (clone 19N10B7) on (A) Full-length human HMGB1 protein, (B) Human Jurkat cell lysate and (C) Mouse NIH 3T3 cell lysate. Goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate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



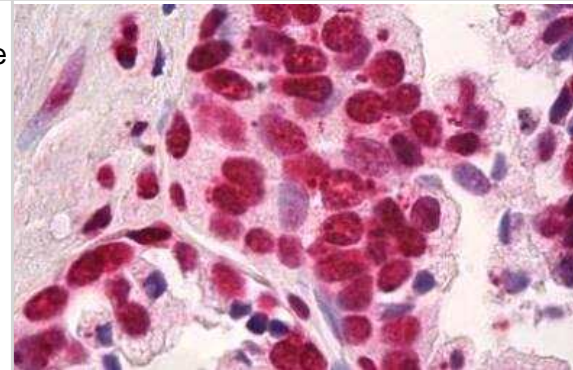
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed, paraffin-embedded human spleen tissue stained with HMGB1 antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate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



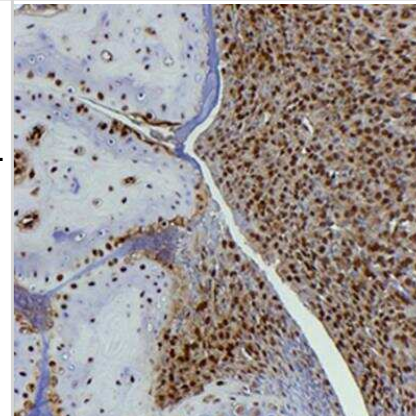
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed, paraffin-embedded human breast stained with HMGB1 antibody at 5 ug/ml.



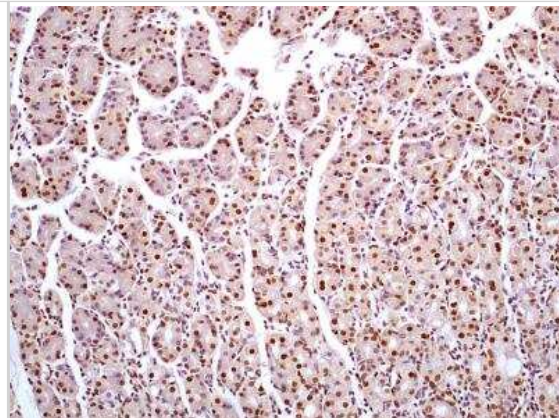
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Formalin-fixed paraffin-embedded human prostate tissue stained with HMGB1 antibody at 10 ug/ml concentration. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for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



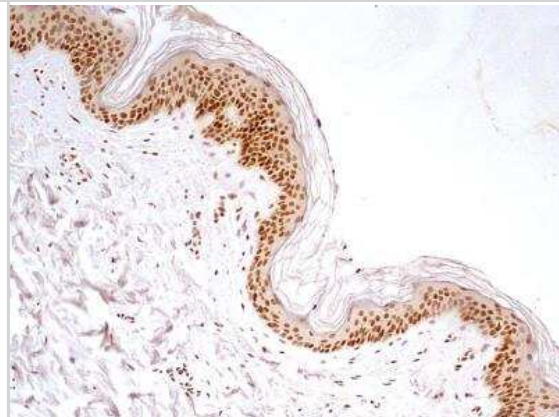
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - Analysis of formalin-fixed, decalcified, paraffin embedded tissue section from the paws of mouse (collagen-induced arthritis model) using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. [Image courtesy of Dr Ulf Andersson,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



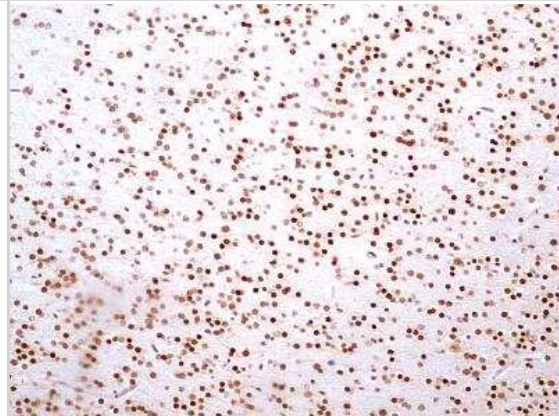
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of human stomach using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Distinct nuclear staining of HMGB1 was observed in different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



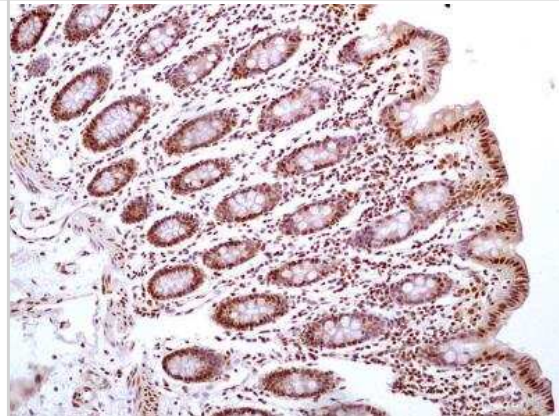
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of normal human skin using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. The various cells of the epidermal layer showed intense 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.



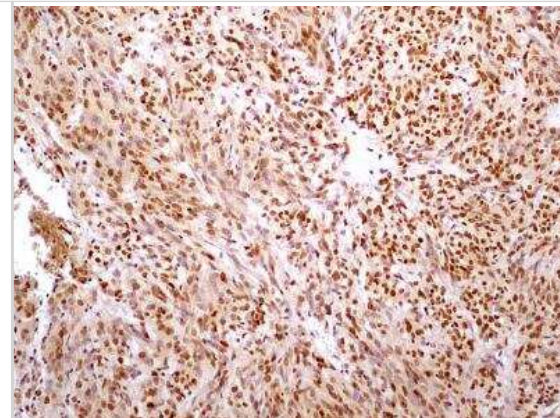
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of normal human brain using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Representative image shows a distinct nuclear immunostaining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



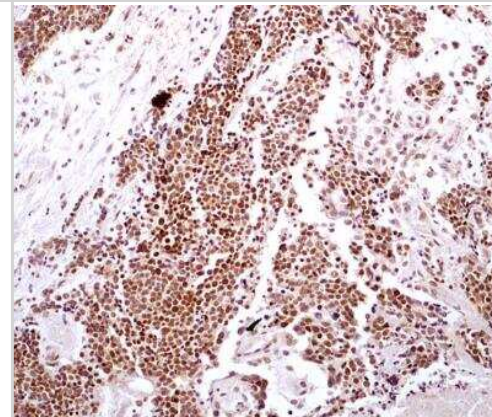
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of normal human colon using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Representative image shows specific HMGB1 nuclear positivity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



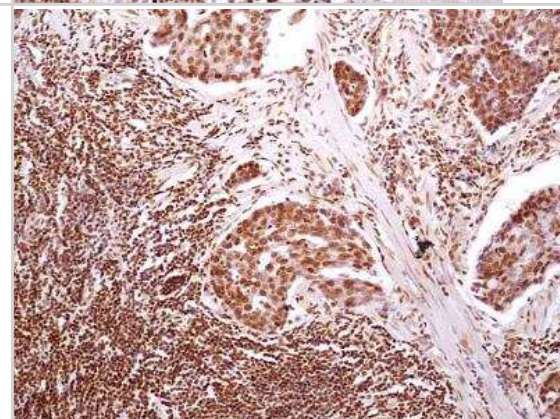
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of malignant stromal tumor of small bowel from human using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. HMGB1 immunopositivity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



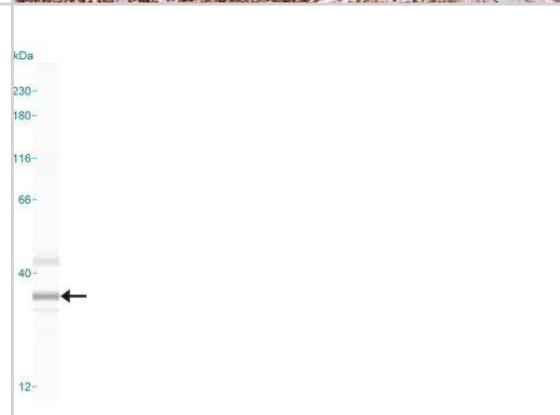
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (19N10B7) [NBP2-27396] - IHC-P detection of HMGB1 protein in a formalin-fixed paraffin-embedded tissue section of human bladder cancer using HMGB1 antibody (clone 19N10B7) at 5 ug/ml concentration. Strong nuclear HMGB1 immunopositivity was observed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

[nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.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](mailto: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](mailto:info.EMEA@bio-techne.com)

### General Contact Information

[www.novusbio.com](http://www.novusbio.com)

Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)

Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)

General: [novus@novusbio.com](mailto:novus@novusbio.com)

### Products Related to NBP2-27396

---

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

---

### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-27396](http://www.novusbio.com/reviews/submit/NBP2-27396)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

