

# Product Datasheet

## HMGB1/HMG-1 Antibody (1F3)

### NBP2-25148

Unit Size: 0.1 ml

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

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#### Publications: 2

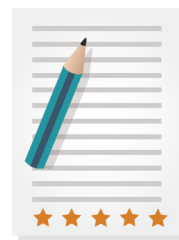
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**NBP2-25148****HMGB1/HMG-1 Antibody (1F3)**

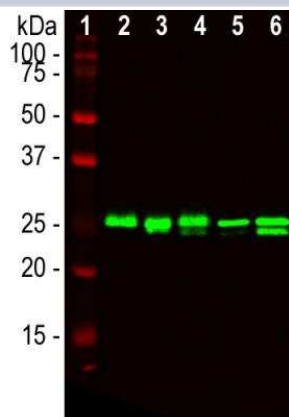
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1F3
<b>Preservative</b>	5mM Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	50% PBS, 50% glycerol
<b>Target Molecular Weight</b>	25 kDa

Product Description	
<b>Host</b>	Mouse
<b>Gene Symbol</b>	HMGB1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Full length recombinant human HMGB1 protein expressed in and purified from E. coli. [UniProt# P09429]

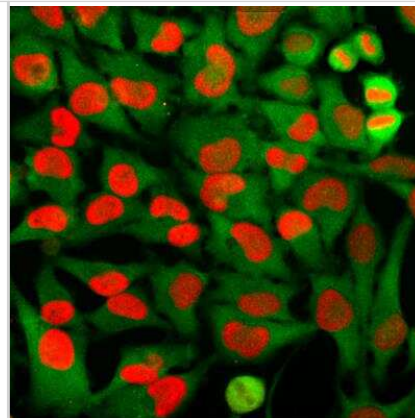
Product Application Details	
<b>Applications</b>	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:2000, Simple Western 1:500, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:1000, CyTOF-ready
<b>Application Notes</b>	<p>This HMGB1 (1F3) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western Blot, where a band is seen at approximately 25 kDa. This antibody is CyTOF ready.</p> <p>In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

**Images**

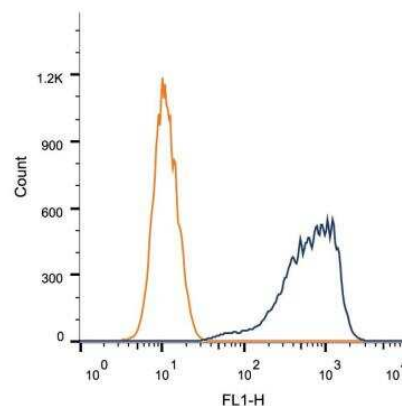
Western Blot: HMGB1/HMG-1 Antibody (1F3) [NBP2-25148] - Analysis of lysates from different cell lines probed with mouse mAb to high mobility group protein B1, (HMGB1), NBP2-25148, dilution 1:2,000: [1] protein standard, [2] NIH-3T3, [3] C6, [4] HEK293, [5] HeLa, and [6] SH-SY5Y. The 25kDa band revealed by MCA-1F3 antibody, corresponds to HMGB1 protein.



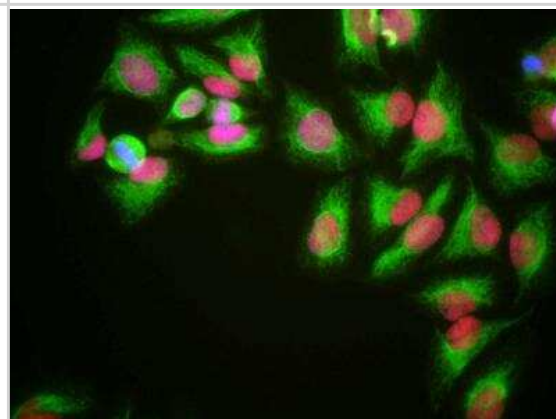
Immunocytochemistry/Immunofluorescence: HMGB1/HMG-1 Antibody (1F3) [NBP2-25148] - Analysis of HeLa cells stained with mouse mAb to HMGB1, NBP2-25148, dilution 1:2,000 in red and costained with rabbit pAb to GAPDH, dilution 1:2,000 in green. MCA-1F3 antibody stains the chromatin binding protein HMGB1, which is localized in the nuclei.



Flow Cytometry: HMGB1/HMG-1 Antibody (1F3) [NBP2-25148] - Intracellular flow cytometric staining of  $1 \times 10^6$  MCF-7 cells using HMGB1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of  $1 \mu\text{g}/1 \times 10^6$  cells was used.



Immunocytochemistry/Immunofluorescence: HMGB1/HMG-1 Antibody (1F3) [NBP2-25148] - HeLa cells grown in tissue culture and stained with NBP2-25148 (red), chicken polyclonal antibody to Vimentin NB300-223 (green) and DNA (blue). NBP2-25148 reveals strong nuclear staining which overlaps with the DNA stain.



Simple Western: HMGB1/HMG-1 Antibody (1F3) [NBP2-25148] - Simple Western lane view shows a specific band for HMGB1 in 0.05 mg/ml of Jurkat lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Tonner H, Hunn S, Auler N et al. A Monoclonal Anti-HMGB1 Antibody Attenuates Neurodegeneration in an Experimental Animal Model of Glaucoma International journal of molecular sciences 2022-04-07 [PMID: 35456925] (In Vivo, Rat)

Nestor J, Arinuma Y, Huerta TS et al. Lupus antibodies induce behavioral changes mediated by microglia and blocked by ACE inhibitors. J. Exp. Med. 2018-09-05 [PMID: 30185634] (ICC/IF, Mouse)





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### **Products Related to NBP2-25148**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP2-34960-10ug	Recombinant Human HMGB1/HMG-1 His (C-Term) Protein

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### **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.

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