

# Product Datasheet

## Mouse HMGB1/HMG-1 ELISA Kit (Colorimetric) NBP2-62767

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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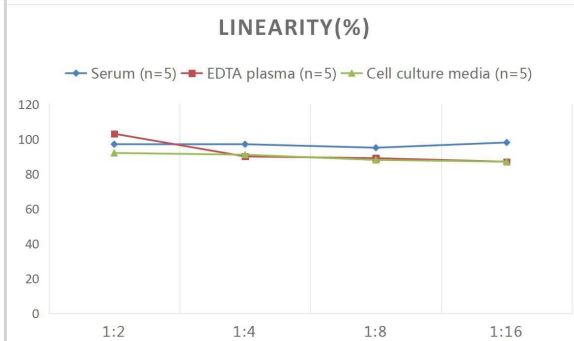
**NBP2-62767**

## Mouse HMGB1/HMG-1 ELISA Kit (Colorimetric)

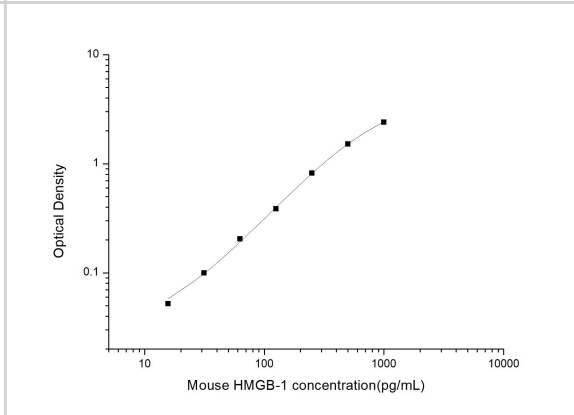
Product Information	
Unit Size	1 Kit
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage of components varies. See protocol for specific instructions.
Product Description	
Gene ID	3146
Gene Symbol	HMGB1
Species	Mouse
Specificity/Sensitivity	This kit recognizes Mouse HMGB-1 in samples. No significant cross-reactivity or interference between Mouse HMGB-1 and analogues was observed.
Kit Components	Micro ELISA Plate (Dismountable), Reference Standard, Concentrated Biotinylated Detection Ab (100x), Concentrated HRP Conjugate (100x), Sample Diluent, Biotinylated Detection Ab Diluent, HRP Conjugate Diluent, Concentrated Wash Buffer (25x), Substrate Reagent, Stop Solution, Plate Sealer, Product Manual
Standard Curve Range	15.625 - 1000 pg/mL
Sensitivity	9.375 pg/mL
Inter Assay	%CV < 5.05
Intra Assay	%CV < 5.41
Assay Type	Sandwich-ELISA
Spiking Recovery	83 - 105%
Suitable Sample Type	Serum, plasma and other biological fluids
Sample Volume	100 uL
Product Application Details	
Applications	ELISA
Recommended Dilutions	ELISA

## Images

ELISA: Mouse HMGB1/HMG-1 ELISA Kit (Colorimetric) [NBP2-62767] - Samples were spiked with high concentrations of Mouse HMGB1/HMG-1 and diluted with Reference Standard & Sample Diluent to produce samples with values within the range of the assay.



ELISA: Mouse HMGB1/HMG-1 ELISA Kit (Colorimetric) [NBP2-62767] - Standard Curve Reference



## Publications

Israr Ahmad, Adam Molyvdas, Ming-Yuan Jian, Ting Zhou, Amie M. Traylor, Huachun Cui, Gang Liu, Weifeng Song, Anupam Agarwal, Tamas Jilling, Saurabh Aggarwal, Sadis Matalon AICAR decreases acute lung injury by phosphorylating AMPK and upregulating heme oxygenase-1 *The European respiratory journal* 2022-05-28 [PMID: 34049949]

Yiwei Zhu, Lin Lei, Xinghui Wang, Linfang Chen, Wei Li, Jinxia Li, Chenchen Zhao, Xiliang Du, Yuxiang Song, Wenwen Gao, Guowen Liu, Xinwei Li The E3 ubiquitin ligase NEDD4-1 protects against acetaminophen-induced liver injury by targeting VDAC1 for degradation *Acta Pharmaceutica Sinica. B* 2023-01-29 [PMID: 37139424]

Zhang J, Brown R, Hogan M, Wang J Mitigating Scar Tissue Formation in Tendon Injuries: Targeting HMGB1, AMPK Activation, and Myofibroblast Migration All at Once preprints.org 2023-11-13 [PMID: 38139865] (ELISA)

Chang L, Chin Y, Wu P et al. Polymeric nano-formulation of spectrum selective RTK inhibitor strengthens anti-cancer effects via immune remodeling by endoplasmic reticulum stress-modulating mitochondrial metabolism *Nano Today* 2024-02-01 (ELISA, Mouse)

Koutsodendris N, Blumenfeld J, Agrawal A et al. APOE4-promoted gliosis and degeneration in tauopathy are ameliorated by pharmacological inhibition of HMGB1 release *Cell reports* 2023-10-31 [PMID: 37863057]

### Details:

Biochemically extracted mouse hippocampal tissue lysates or collected hippocampal interstitial fluid (ISF) were run according to the provided manufacturer protocols (mouse HMGB1; (Novus Biologicals).

Liu H, Ghosh S, Vaidya T et al. Activated cGAS/STING signaling elicits endothelial cell senescence in early diabetic retinopathy *JCI insight* 2023-06-22 [PMID: 37345657] (ELISA)

Ghosh P, Sasaki K, Pulido Ruiz IA et al. Inflammatory macrophage to hepatocyte signals can be prevented by extracellular vesicle reprogramming *Journal of cell science* 2023-04-13 [PMID: 37051862] (ELISA, Mouse)

Deng B, yang D, Wu H et al. Ketamine inhibits TNF-alpha-induced cecal damage by enhancing RIP1 ubiquitination to attenuate lethal SIRS *Cell death discovery* 2022-02-19 [PMID: 35184141]

Go EJ, Yang H, Chon HJ et al. Combination of Irreversible Electroporation and STING Agonist for Effective Cancer Immunotherapy *Cancers* 2020-10-26 [PMID: 33114476] (ELISA)

Shi C, Wang Z, Wang L et al. A nanotrap improves survival in severe sepsis by attenuating hyperinflammation *Nat Commun* 2020-07-07 [PMID: 32636379] (ELISA, Mouse)





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### **Products Related to NBP2-62767**

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NBP2-34960-10ug	Recombinant Human HMGB1/HMG-1 His (C-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]
NB100-2322	HMGB1/HMG-1 Antibody
M6000B-1	IL-6 [HRP]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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