

Product Datasheet

HMGB1/HMG-1 Antibody (1D5) - Azide and BSA Free H00003146-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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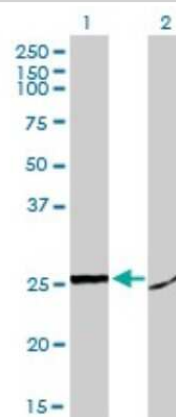


H00003146-M02**HMGB1/HMG-1 Antibody (1D5) - Azide and BSA Free**

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1D5
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	3146
Gene Symbol	HMGB1
Species	Human
Specificity/Sensitivity	HMGB1 - high-mobility group box 1
Immunogen	HMGB1 (AAH03378.1, 1 a.a. ~ 215 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKCKSERWKT MSAKEKGFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSAFFL FCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACLKEKYEK DIAAYRAKGPDAAKKGVVKAESKSKKKKEEEDEEEDDEEEDEEEDEEEDDEE DDDDE
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, Sandwich ELISA Capture
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Sandwich ELISA 1:100-1:2000, Sandwich ELISA Capture
Application Notes	Antibody reactivity against recominant protein and cell lysate for WB. It has also been used for IF, IHC-P and ELISA.

Images

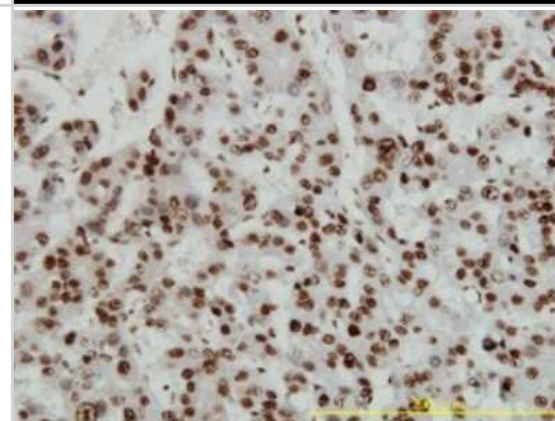
Western Blot: HMGB1/HMG-1 Antibody (1D5) [H00003146-M02] - Analysis of HMGB1 expression in transfected 293T cell line by HMGB1 monoclonal antibody (M02), clone 1D5. Lane 1: HMGB1 transfected lysate(24.9 KDa). Lane 2: Non-transfected lysate.



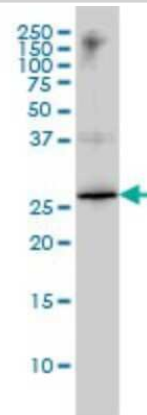
Immunocytochemistry/Immunofluorescence: HMGB1/HMG-1 Antibody (1D5) [H00003146-M02] - Analysis of monoclonal antibody to HMGB1 on HeLa cell. Antibody concentration 10 ug/ml.



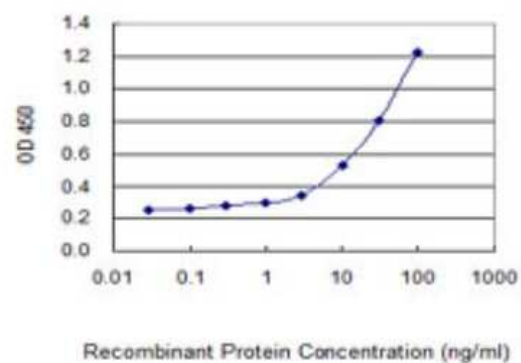
Immunohistochemistry-Paraffin: HMGB1/HMG-1 Antibody (1D5) [H00003146-M02] - Analysis of monoclonal antibody to HMGB1 on formalin-fixed paraffin-embedded human hepatocellular carcinoma tissue. Antibody concentration 3 ug/ml.



Western Blot: HMGB1/HMG-1 Antibody (1D5) [H00003146-M02] - HMGB1 monoclonal antibody (M02), clone 1D5 Analysis of HMGB1 expression in K-562.



Sandwich ELISA Capture: HMGB1/HMG-1 Antibody (1D5) [H00003146-M02] - Detection limit for recombinant GST tagged HMGB1/HMG-1 is 0.1 ng/ml as a capture antibody.



Publications

Pascale H, Patrick R, Stephanie D et al. Extracellular HMGB1 blockade inhibits tumor growth through profoundly remodeling immune microenvironment and enhances checkpoint inhibitor-based immunotherapy. *J Immunother Cancer*. 2021-03-15 [PMID: 33712445]

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] (MiAr, Rat)

Hirano H, Yoshioka T, Yunoue S et al. TLR4, IL-6, IL-18, MyD88 and HMGB1 are highly expressed in intracranial inflammatory lesions and the IgG4/IgG ratio correlates with TLR4 and IL-6. *Neuropathology*. 2012-03-13 [PMID: 22414145]

Ko HK, Hsu WH, Hsieh CC et al. High expression of high-mobility group box 1 in the blood and lungs is associated with the development of chronic obstructive pulmonary disease in smokers. *Respirology*. 2013-12-24 [PMID: 24372740]

Demoulin S, Herfs M, Somja J et al. HMGB1 secretion during cervical carcinogenesis promotes the acquisition of a tolerogenic functionality by plasmacytoid dendritic cells. *Int J Cancer*. 2014-11-26 [PMID: 25492101]

Kijanka G, Hector S, Kay EW et al. Human IgG antibody profiles differentiate between symptomatic patients with and without colorectal cancer. *Gut* 59(1):69-78. 2010-01-01 [PMID: 19828471]

Kruger B, Krick S, Dhillon N et al. Donor Toll-like receptor 4 contributes to ischemia reperfusion injury following human kidney transplantation. *Proc Natl Acad Sci U S A* 106(9):3390-5. 2009-03-03 [PMID: 19218437]



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Products Related to H00003146-M02

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
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.

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