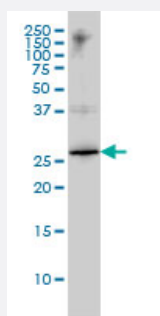


HMGB1 monoclonal antibody (M02), clone 1D5

Catalog # H00003146-M02

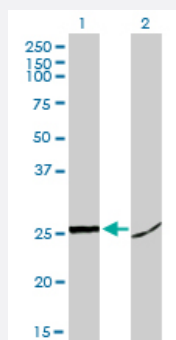
Size 100 ug

Applications



Western Blot (Cell lysate)

HMGB1 monoclonal antibody (M02), clone 1D5 Western Blot analysis of HMGB1 expression in K-562 (Cat # L009V1).

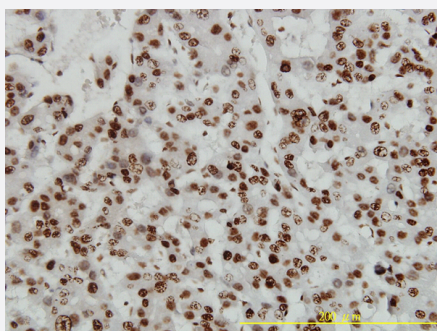


Western Blot (Transfected lysate)

Western Blot analysis of HMGB1 expression in transfected 293T cell line by HMGB1 monoclonal antibody (M02), clone 1D5.

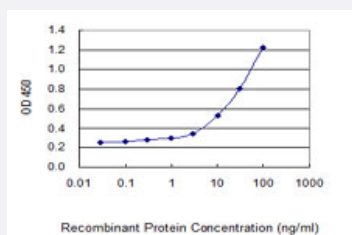
Lane 1: HMGB1 transfected lysate(24.9 KDa).

Lane 2: Non-transfected lysate.



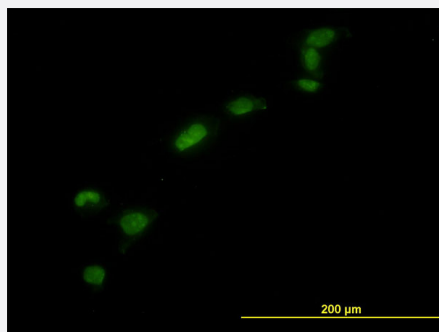
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HMGB1 on formalin-fixed paraffin-embedded human hepatocellular carcinoma tissue. [antibody concentration 3 ug/ml]



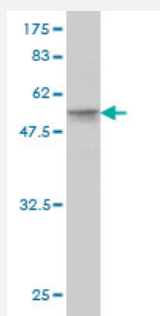
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HMGB1 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to HMGB1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (49.39 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant HMGB1.
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.
Sequence	MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKTMSAKEKGKFED MAKADKARYEREMKTYPPKGETKKKFKDPNAPKRPPSAFFLFCSEYRPKIKGEHPGLSIGDVAK KLGEMWNNTAADDKQPYEKKAALKKEYEKDIAAYRAKGKPDAAKKGVVKAESKKKKKEEED EEDEEDEEEEEDEEDEDDEEDDDDE
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (49.39 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

HMGB1 monoclonal antibody (M02), clone 1D5 Western Blot analysis of HMGB1 expression in K-562 (Cat # L009V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot 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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HMGB1 on formalin-fixed paraffin-embedded human hepatocellular carcinoma tissue. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HMGB1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to HMGB1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — HMGB1

Entrez GeneID [3146](#)

GeneBank Accession# [BC003378](#)

Protein Accession# [AAH03378.1](#)

Gene Name	HMGB1
Gene Alias	DKFZp686A04236, HMG1, HMG3, SBP-1
Gene Description	high-mobility group box 1
Omim ID	163905
Gene Ontology	Hyperlink
Other Designations	Amphoterin OTTHUMP00000018199 OTTHUMP00000190860 Sulfoglucuronyl carbohydrate binding protein high mobility group box 1 high mobility group protein 1 high-mobility group (nonhistone chromosomal) protein 1

Publication Reference

- [Extracellular HMGB1 blockade inhibits tumor growth through profoundly remodeling immune microenvironment and enhances checkpoint inhibitor-based immunotherapy.](#)

Pascale Hubert, Patrick Roncarati, Stephanie Demoulin, Charlotte Pilard, Marie Ancion, Celia Reynders, Thomas Lerho, Diane Bruyere, Alizee Lebeau, Coraline Radermecker, Margot Meunier, Marie-Julie Nokin, Elodie Hendrick, Olivier Peulen, Philippe Delvenne, Michael Herfs.

Journal for Immunotherapy of Cancer 2021 Mar; 9(3):e001966.

Application: ICC, IHC-P, Human, Human breast cancers, Human mammary epithelial cells, Human normal mammary glands, Hs578T, MCF-7, MCF10A, MDA-MB-468, T-47D cells

- [HMGB1 secretion during cervical carcinogenesis promotes the acquisition of a tolerogenic functionality by plasmacytoid dendritic cells.](#)

Demoulin S, Herfs M, Somja J, Roncarati P, Delvenne P, Hubert P.

International Journal of Cancer 2015 Jul; 137(2):345.

Application: IF, IHC-P, Human, Cervical tissue samples included normal exocervical tissues, epithelial metaplasia, low-grade squamous intraepithelial lesion, high-grade squamous intraepithelial lesion and squamous cell carcinoma.

- [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.](#)

Ko HK, Hsu WH, Hsieh CC, Lien TC, Lee TS, Kou YR.

Respirology 2014 Feb; 19(2):253.

Application: IHC-P, Human, Lung

- [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.](#)

Hirano H, Yoshioka T, Yunoue S, Fujio S, Yonezawa H, Niino T, Habu M, Oyoshi T, Sugata S, Kamezawa T, Arimura H, Hanaya R, Tokimura H, Tokudome M, Arita K.

0 2012 Dec; 32(6):628.

Application: IF, IHC-P, Human, Human brain

- [Human IgG antibody profiles differentiate between symptomatic patients with and without colorectal cancer.](#)

Kijanka G, Hector S, Kay EW, Murray F, Cummins R, Murphy D, Macraith BD, Prehn JH, Kenny D.

Gut 2010 Jan; 59(1):69.

Application: IHC-P, Human, Human colorectal cancer

- [Donor Toll-like receptor 4 contributes to ischemia and reperfusion injury following human kidney transplantation.](#)

Kruger B, Krick S, Dhillon N, Lerner SM, Ames S, Bromberg JS, Lin M, Walsh L, Vella J, Fischereder M, Kramer BK, Colvin RB, Heeger PS, Murphy BT, Schropel B.

Proceedings of the National Academy of Sciences of the United States of America 2009 Mar; 106(9):3390.

Application: IF, Human, Kidney

Pathway

- [Base excision repair](#)

Disease

- [Bone Marrow Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Hematologic Neoplasms](#)
- [Puerperal Disorders](#)
- [Recurrence](#)
- [Sepsis](#)
- [Streptococcal Infections](#)
- [Systemic Inflammatory Response Syndrome](#)