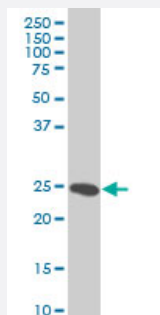


HMGB2 monoclonal antibody (M03), clone 3C7

Catalog # H00003148-M03

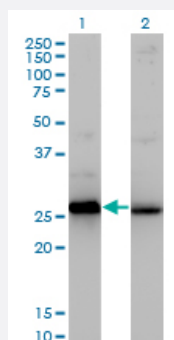
Size 100 ug

Applications



Western Blot (Cell lysate)

HMGB2 monoclonal antibody (M03), clone 3C7 Western Blot analysis of HMGB2 expression in Hela S3 NE (Cat # L013V3).

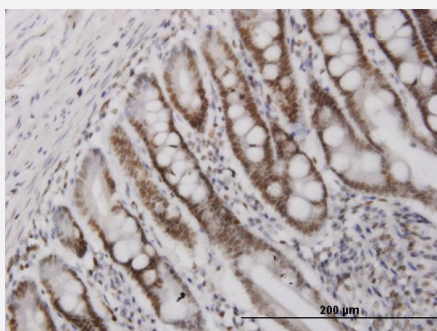


Western Blot (Transfected lysate)

Western Blot analysis of HMGB2 expression in transfected 293T cell line by HMGB2 monoclonal antibody (M03), clone 3C7.

Lane 1: HMGB2 transfected lysate(22 KDa).

Lane 2: Non-transfected lysate.

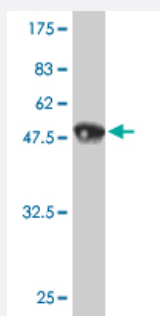
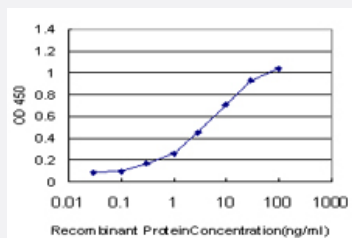


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HMGB2 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1.5 ug/ml]

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HMGB2 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (47.19 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant HMGB2.
Immunogen	HMGB2 (AAH00903.2, 1 a.a. ~ 195 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFED MAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPKRPPSAFFLCSEHRPKIKSEHPGLSIGDTA KKLGEMWSEQSAKDKQPYEQKAAKLKEKYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNEPED EEEEEE
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (47.19 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)

HMGB2 monoclonal antibody (M03), clone 3C7 Western Blot analysis of HMGB2 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of HMGB2 expression in transfected 293T cell line by HMGB2 monoclonal antibody (M03), clone 3C7.

Lane 1: HMGB2 transfected lysate(22 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 HMGB2 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1.5 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HMGB2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — HMGB2

Entrez GeneID	3148
GeneBank Accession#	BC000903
Protein Accession#	AAH00903.2
Gene Name	HMGB2
Gene Alias	HMG2

Gene Description	high-mobility group box 2
Omim ID	163906
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination. [provided by RefSeq]
Other Designations	high-mobility group (nonhistone chromosomal) protein 2

Publication Reference

- [Association of serum HMGB2 level with MACE at 1 mo of myocardial infarction: Aggravation of myocardial ischemic injury in rats by HMGB2 via ROS.](#)
Liu ZH, Dai DP, Ding FH, Pan WQ, Fang YH, Zhang Q, Li M, Yang P, Wang XQ, Shen Y, Wang LJ, Yan XX, He YH, Yang K, Zhang RY, Shen WF, Chen Y, Lu.
American Journal of Physiology. Heart and Circulatory Physiology 2016 Dec; 312(3):H422.
Application: ELISA, Human, Serum from patients with ST-elevation myocardial infarction (STEMI)
- [Overexpression of HMGB2 is associated with tumor aggressiveness and prognosis of hepatocellular carcinoma.](#)
Kwon JH, Kim J, Park JY, Hong SM, Park CW, Hong SJ, Park SY, Choi YJ, Do I, Joh JW, Kim DS, Choi KY.
Clinical Cancer Research 2010 Nov; 16(22):5511.
Application: IHC-P, Human, Human hepatocellular carcinoma

Disease

- [Azoospermia](#)
- [Infertility](#)
- [Oligospermia](#)