

Human HMG-1/HMGB1 antibody

Catalog Number: AHM0915

PRODUCT INFORMATION

Catalog number

AHM0915

Clone No.

J2E1

Product type

Monoclonal Antibody

UnitProt No.

P09429

NCBI Accession No.

NP_002119

Alternative Names

Sulfoglucuronyl carbohydrate binding protein, SBP-1, HMGB1, HMG3, HMG1, High-mobility group box1, High-mobility group (nonhistone chromosomal) protein 1, DKFZp686A04236, Amphoterin

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human HMGB1 (1-215aa) purified from Baculovirus

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, IHC

Usage

The antibody has been tested by ELISA, Western blot and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

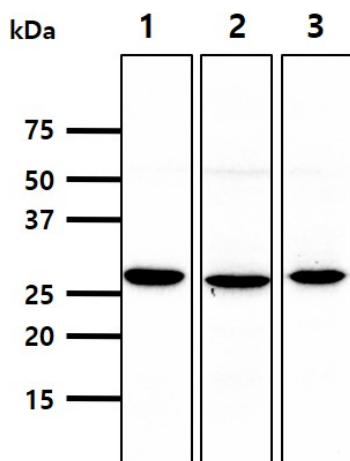
High mobility group box1 protein (HMGB1) is a very abundant chromatin-binding protein residing in the eukaryotic cell nucleus and acting in the assembly of nucleoprotein complexes. Inside the cell, HMGB1 binds to DNA and has a role in transcriptional regulation. Outside the cell, HMGB1 acts as a cytokine and has activities that resemble those of tumor necrosis factor.

General References

Palumbo R J, et al., (2004) Cell Biol. Feb 2 164(3).
Andersson U, et al., (2002) Leukoc Biol. Dec. 72(6):1084-91.

DATA

Western blot analysis (WB)



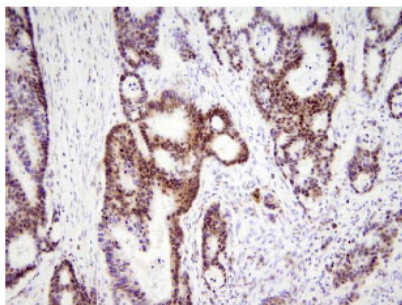
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HMGB1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Jurkat cell lysate

Lane 1.: K562 cell lysate

Lane 1.: MCF7 cell lysate

Immunohistochemistry (IHC)



Paraffin embedded sections of human colon cancer tissue were incubated with anti-human HMGB1 (1:200) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)